2015

Congoleum

emerge
transform
evolve

featured contents

DIAMOND™
Match: 12" L x 12" W   Do Not Reverse Sheets

10800 Yellow	**10801** Red	**10802** Blue	**10803** Beige	**10804** Gray	**10805** Black
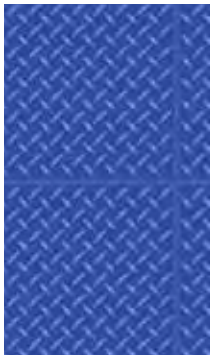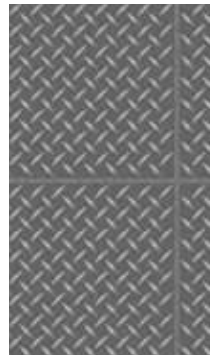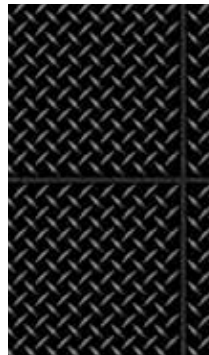
HONEYCOMB™
Match: 24" L x 24" W   Do Not Reverse Sheets
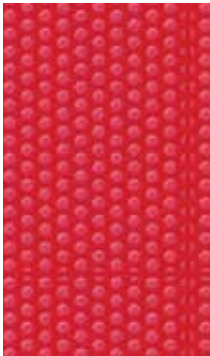
10810 Yellow	**10811** Red	**10812** Blue	**10813** Beige	**10814** Gray	**10815**
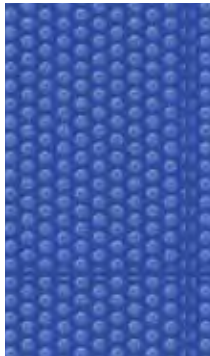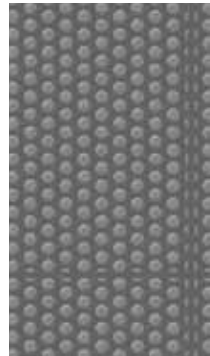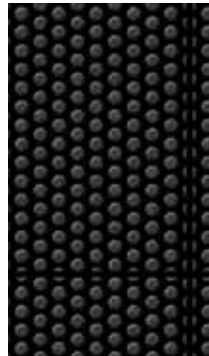
GEOMETRIC™
Match: 24" L x 24" W   Do Not Reverse Sheets

10820 Yellow	**10821** Red	**10822** Blue	**10823** Beige	**10824** Gray	**10825** Black
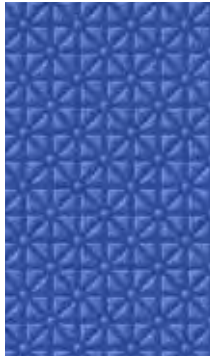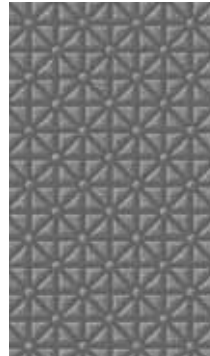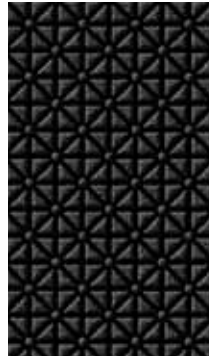
BARCELONA™
Economy Match: 18" L x 36" W   Do Not Reverse Sheets
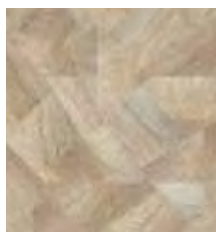
10500 La Rambla

10501 Marquetry
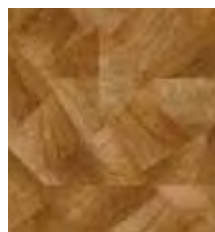
10502 Olé

10503 Tapas

10504 Flamenco

10505 Catalan

BERLIN™
Economy Match: 27" L x 13.09" W   Do Not Reverse Sheets

10510 Oyster Bar
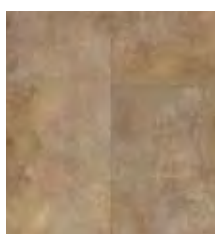
10511 Beaches
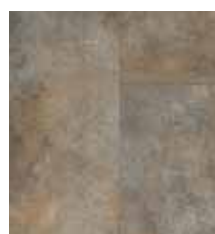
10512 Mitte

10513 Railway

10514 Brandenburg
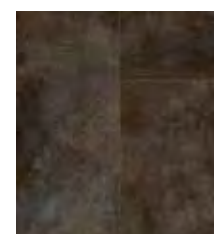
10515 Tempelhof

BOULDER™
Economy Match: Random L x 9" W   Do Not Reverse Sheets
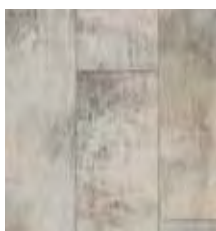
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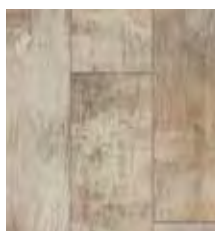
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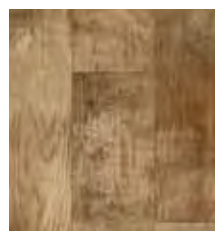
10522 Continental Divide
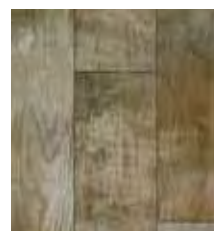
10523 Haystack

10524 Eldorado Canyon
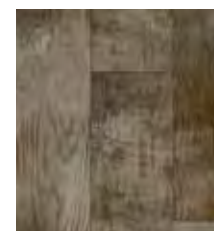
10525 Flatirons

BOSTON™
Economy Match: 18" L x 18" W   Do Not Reverse Sheets

10530 Commons

10531 Back Bay

10532 Tea Party
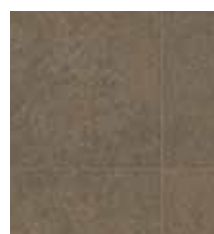
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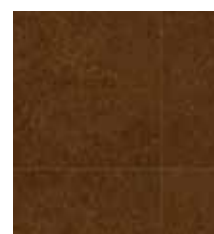
10534 Revere

BOSTON 10532 Tea Party

NEW!
AirStep
Advantage
Wonder

WONDER 88053 Tree Shadows

SAVOR™
Economy Match: 54" L x 72" W   Do Not Reverse Sheets
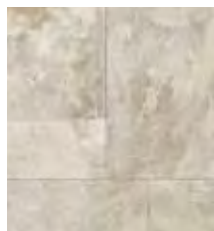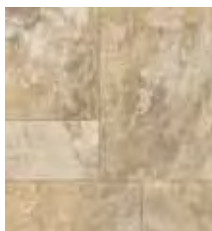
88000 Clam Chowder   **88001** Warm Croissant   **88002** Cookies n' Cream   **88003** Pecan Pie   **88004** Beluga Caviar   **88005** Sushi
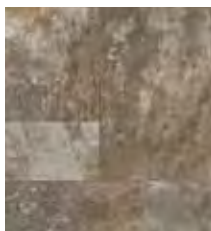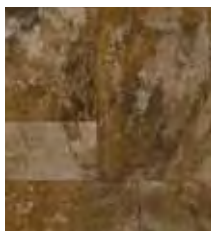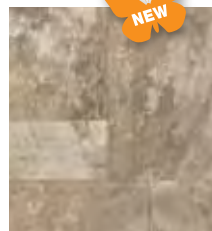
PLAYTIME™
Economy Match: Random L x 48" W   Do Not Reverse Sheets
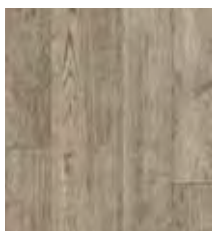
88010 Hop Scotch   **88011** Swing Set   **88013** Hide and Seek   **88014** Board Game   **88015** Tree House
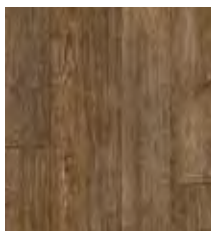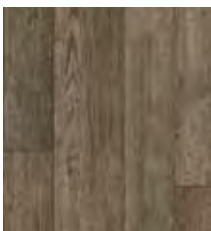
CHERISH™
Economy Match: 27" L x 13.09" W   Do Not Reverse Sheets

UNWIND™
Economy Match: 27" L x 13.09" W   Do Not Reverse Sheets
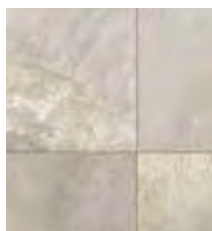
88021 Soul Mate   **88024** Peck on the Cheek   **88030** Mountain Air   **88031** Weekend in the Country   **88032** Sunday Times   **88033** Cup of Tea
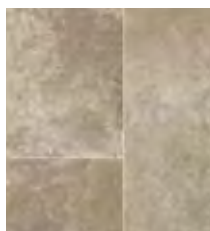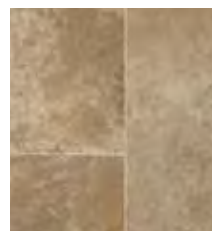
CURIOUS™
Economy Match: Random L x 36" W   Do Not Reverse Sheets
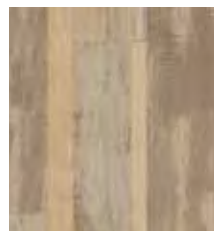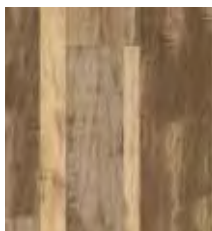
88040 Puzzle   **88041** Presents   **88042** Magic Trick   **88043** Cattail
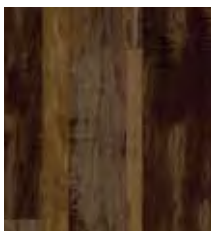
WONDER™
Economy Match: Random 6"L x 36" W   Do Not Reverse Sheets
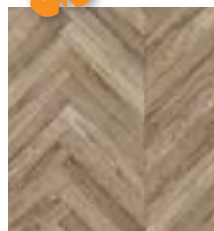
88050 Dandelion Puff   **88051** Toadstool   **88052** Pinecone   **88053** Tree Shadows
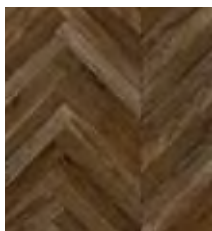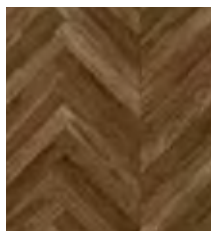
TERRACE™
Economy Match: 18" L x 36" W   Do Not Reverse Sheets

72000 Corn Silk

72001 Desert Sunset

72002 Autumn Glow

72004 Iced Mocha
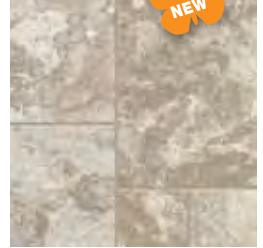
72005 Cashmere

COLONIAL PLANK™
Economy Match: Random L x 36" W   Do Not Reverse Sheets

72006 Blue Dusk
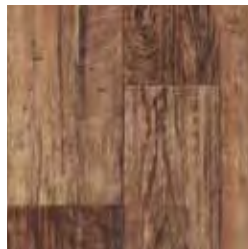
72010 Dark Khaki
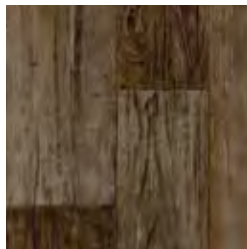
72013 Wagon Wheel
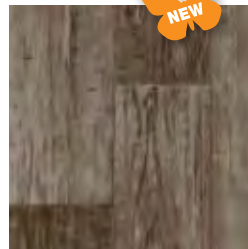
72014 Barn Owl
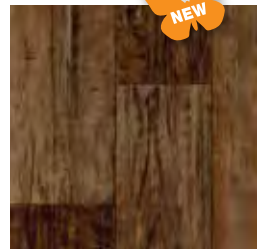
72019 Harvest Moon

COZUMEL™
Economy Match: 18" L x 27" W
Do Not Reverse Sheets
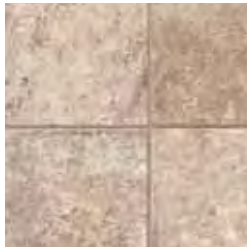
72044 Sand Beige

FAIR WIND™
Economy Match: 27" L x 72" W
Do Not Reverse Sheets
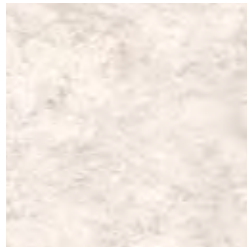
72060 Glacier White
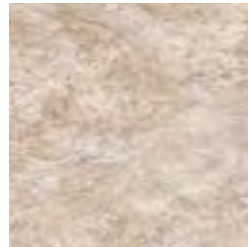
72061 Spun Gold

72062 Evening Shadows

GRAND CANYON™
Economy Match: 13.5" L x 13.09" W   Do Not Reverse Sheets
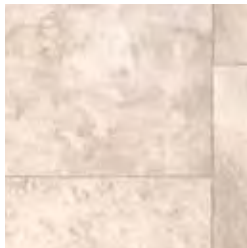
72050 Antique Lace

72051 Golden Gate

72053 Safari
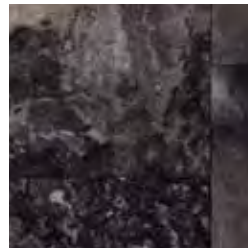
72054 Enchanted Evening
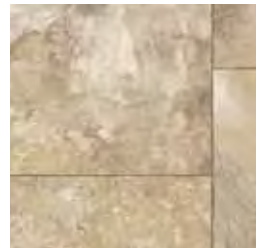
72055 Camelback

AirStep Evolution® Featuring SCOTCHGARD PROTECTOR 3M

RENDEZVOUS™
Economy Match: 27" L x 9" W   Do Not Reverse Sheets
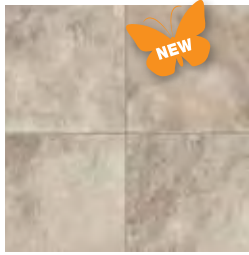
72063 Water's Edge
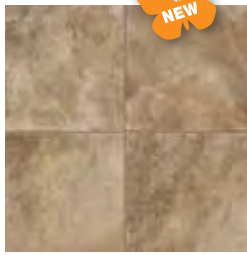
72064 Sunbaked Clay

72065 Full Moon

72067 Sand Bar

PATHWAYS™
Economy Match: 27" L x 36" W   Do Not Reverse Sheets

72080 Pacific Crest Trail

72081 Finger Lakes Trail

72082 Appalachian Trail
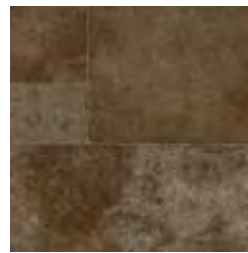
72083 Oregon Trail

TRAVERSTONE™
Economy Match: 27"L x 13.09" W   Do Not Reverse Sheets
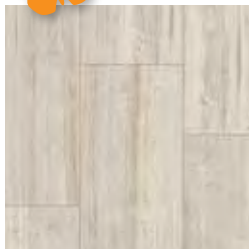
72090 White Sand
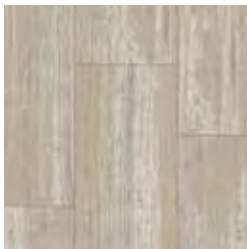
72091 Biscayne Shore

72092 Beachcrest Sand
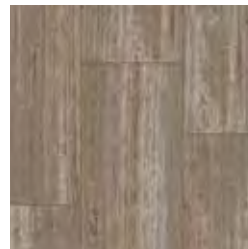
72093 Ocean Floor

FOREST VALLEY™
Economy Match: Random L x 8" W   Do Not Reverse Sheets
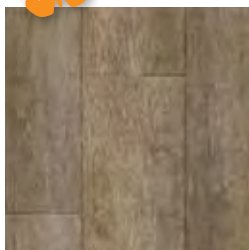
72100 Morning Fog
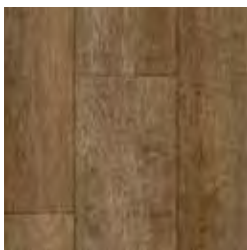
72101 Campfire Ash
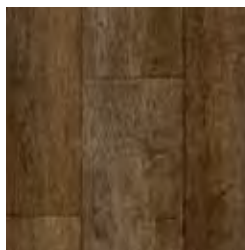
72102 Deer Path
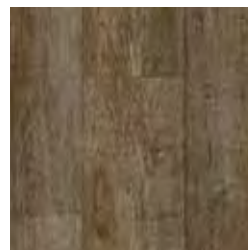
72103 Wilderness Cabin

72104 Midnight Trail

AirStep Plus® Featuring SCOTCHGARD™ PROTECTOR 3M
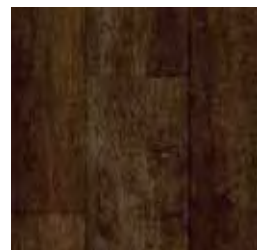
NORTH STAR™
Economy Match: 18" L x 36" W   Do Not Reverse Sheets

58000 Muslin

58001 Sunwashed

WOODLAND™
Economy Match: 9" L x 9" W   Do Not Reverse Sheets
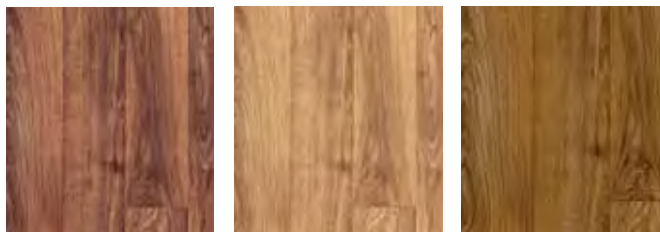
58005 Chestnut

58006 Goldenrod

58008 Maple Sugar

SATIN CLOUD™
Economy Match: 27" L x 72" W   Do Not Reverse Sheets

58010 Mist

58011 Blush

STARLIGHT™
Economy Match: 27" L x 26.18" W   Do Not Reverse Sheets

58020 Oasis Beige

58021 Sunstone

58024 Moonglow

58026 Lantern Glow

WESTERN SLATE™
Economy Match: 27" L x 36" W
Do Not Reverse Sheets
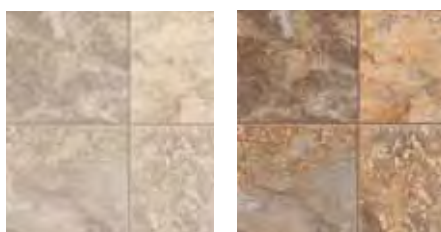
58040 Vanilla Cream

58041 Sundance

QUEST™
Economy Match: 27" L x 36" W
Do Not Reverse Sheets

58072 Lost City

CROSSING™
Economy Match: 54" L x 72" W
Do Not Reverse Sheets
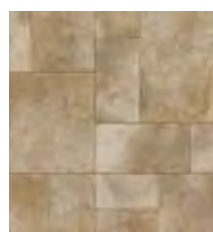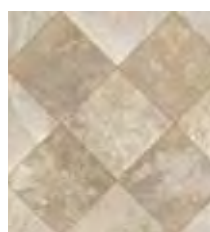
58080 Lunar Eclipse
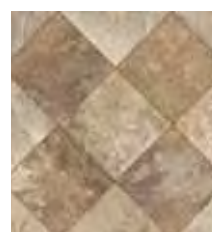
58081 Intersection
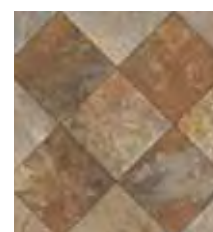
58082 Haley's Comet

WINDSWEPT™
Economy Match: Random L x 72" W   Do Not Reverse Sheets
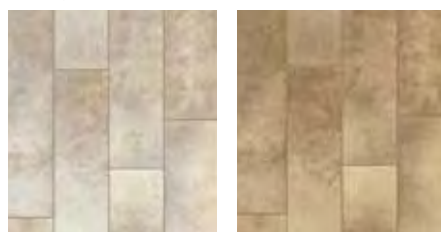
58090 Whisper

58091 Drift
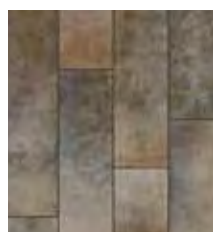
58092 Shadow

OXFORD SQAURE™
NEW
Economy Match: 6" L x 6" W   Do Not Reverse Sheets
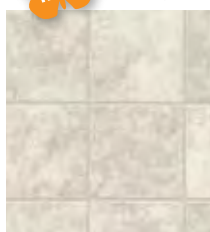
58100 London Fog
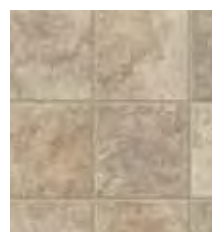
58101 Bleeker Beige

58102 Briarwood

HORIZON™
NEW
Economy Match: 27" L x 13.09" W   Do Not Reverse Sheets
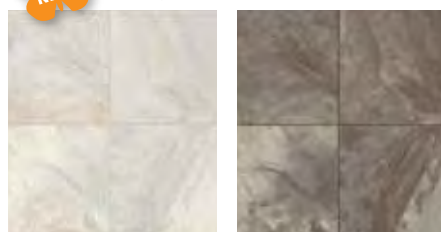
58110 Alaskan Sky

58111 Ozark Shadow

58112 Sunset Vista

EDGEWOOD™
NEW
Economy Match: Random L x 36" W   Do Not Reverse Sheets
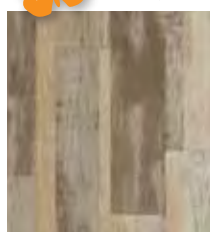
58120 Feather Edge
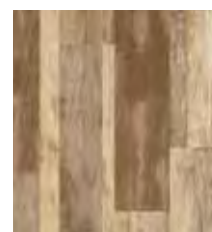
58121 Sanded Edge
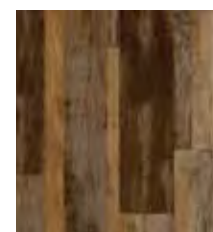
58122 Night's Edge

AirStep Basix®

ACADIA™
Economy Match: 18" L x 18" W   Do Not Reverse Sheets

41010 Sand

41011 Adobe

SEDONA™
Economy Match: 9" L x 9" W   Do Not Reverse Sheets

41020 White Clay

41021 Straw

PANORAMA™
Economy Match: 27" L x 39.5" W   Do Not Reverse Sheets
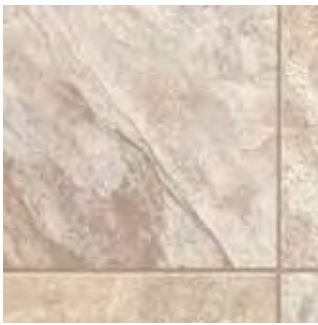
41030 Clay Pebble

41033 Night Horizon

RANDOM PLANK™
Economy Match: Random L x 48" W   Do Not Reverse Sheets
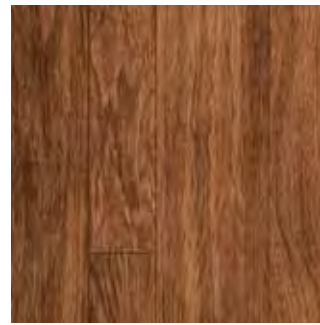
41042 Penny

FLAGSTONE™
Economy Match: 27" L x 24" W   Do Not Reverse Sheets

41050 Fired Bisque

41051 Sandy Sage

41052 Rich Cinnamon

Ultima® Featuring SCOTCHGARD PROTECTOR 3M

HAMPTON CROSSING™
Economy Match: 6" L x 36" W
Do Not Reverse Sheets

UL002 Multi Golden Stone

NATURAL PLANK™
Economy Match: 27" L x 48" W
Do Not Reverse Sheets

UL012 Light Maple

UL014 Weathered Gunstock

RANDOM PAVER™
Economy Match: 27" L x 24" W
Do Not Reverse Sheets
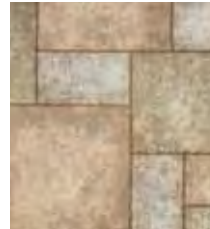
UL112 Moss/Sage/Aspen

BRAZILIAN SLATE™
Economy Match: 18" L x 36" W
Do Not Reverse Sheets

UL164 Opal Bisque

SONOMA™
Economy Match: 18" L x 18" W   Do Not Reverse Sheets

UL210 Straw/Beige

UL211 Bisque/Blue

UL212 Wheat

UL213 Clay/Beige

PEBBLE CREEK™
Economy Match: Random L x Random W   Do Not Reverse Sheets
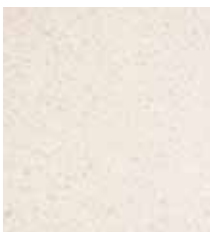
UL230 Multi Stoned White
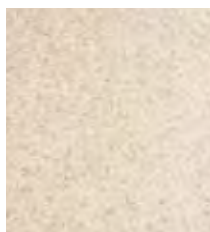
UL231 Multi Stoned Bisque

UL233 Multi Stoned Terra Cotta

SAHARA™
Economy Match: 27" L x 13.09" W   Do Not Reverse Sheets

UL250 Warm Taupestone

UL251 Light Brownstone
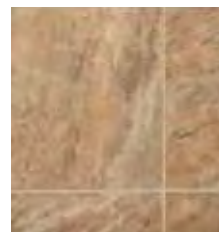
UL256 Golden Terrastone

BROOKSIDE™
Economy Match: 27" L x 36" W   Do Not Reverse Sheets

UL260 White Shale Multi

UL261 Bisque Shale Multi

UL262 Blue Shale Multi

UL263 Sage Shale Multi

SANDSTONE™
Economy Match: 27" L x 36" W   Do Not Reverse Sheets

UL370 Sea Salt
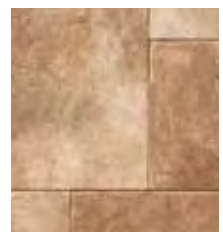
UL372 Sun Glow

MONTEGO SLATE™
Economy Match: 9" L x 36" W
Do Not Reverse Sheets

UL280 Light Bisque Slate

SOHO SLATE™
Economy Match: 27" L x 72" W
Do Not Reverse Sheets

UL300 Soft White

UL302 Pumice Gray

UL303 Mixed Taupe

MESA SLATE™
Economy Match: 27" L x 39.5" W
Do Not Reverse Sheets

UL350 Grand Canyon

Prelude® Featuring

SCOTCHGARD PROTECTOR 3M

SEASONS™
Economy Match: 6" L x 6" W   Do Not Reverse Sheets

02040 Multi Stone White

02041 Bleached Clay Beige

02042 Multi Warm Stone

02043 Bluestone/ Taupestone

02044 Multi Greenstone
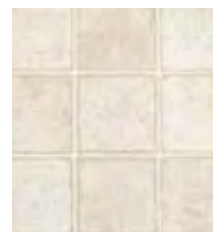
02045 White

NATURAL OAK™
Economy Match: 13.5" L x 13.09" W   Do Not Reverse Sheets
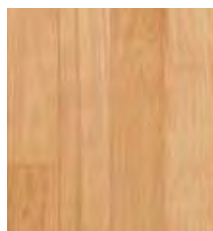
02055 Light Red Oak
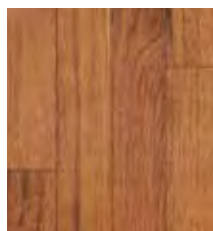
02056 Deep Oak

CHATEAU™
Economy Match: 9" L x 9" W   Do Not Reverse Sheets
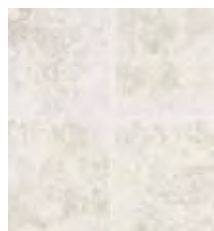
02080 Multi Stone White
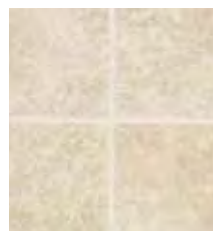
02081 Multi Stone Bisque

02083 Multi Stone/ Spring Blue/Bisque

02084 Multi Stone/ Deep Bisque/Greige

ESCAPE™
Economy Match: 27" L x 26.18" W   Do Not Reverse Sheets

02060 Light Colorado Clay

02062 White Clay

MONACO™
Economy Match: 9" L x 36" W   Do Not Reverse Sheets

02111 Golden Bisque

02112 Multi Light Greige

NAPLES™
Economy Match: 13.5" L x 13.09" W   Do Not Reverse Sheets

02116 Seashell
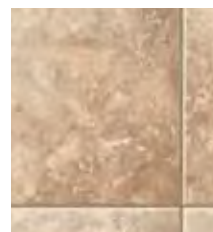
02117 Rustic Beige

MOHAVE STONE™
Economy Match: 27" L x 18" W   Do Not Reverse Sheets
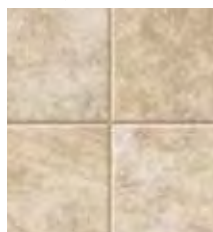
02120 Tumbleweed

02121 Adobe

02122 Brown Ember

PLAZA COURT™
Economy Match: 9" L x 9" W   Do Not Reverse Sheets

02141 Mohave

02142 Almond

WOOD RIDGE™
Economy Match: 9" L x 9" W Do Not Reverse Sheets
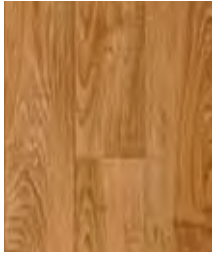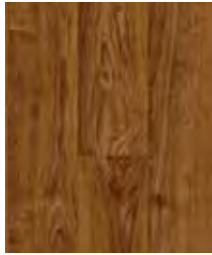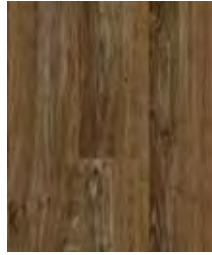
Gold Mine   Autumn Bronze   Mustang

Color Name	Gold Mine	Autumn Bronze	Mustang
ArmorCore	AC130	AC131	AC132
ArmorCore Pro	AP130	AP131	AP132
ArmorCore UR	AU130	AU131	AU132
ArmorCore Pro UR	UP130	UP131	UP132

TERRACE PAVER™
Economy Match: 18" L x 36" W Do Not Reverse Sheets
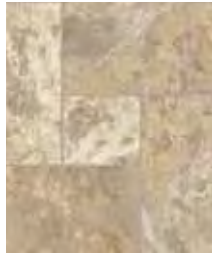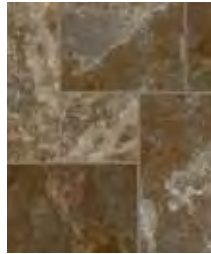
Pale Smoke   Chateau   Lighthouse Landing   Fresh Brew

Color Name	Pale Smoke	Chateau	Lighthouse Landing	Fresh Brew
ArmorCore	AC150	AC151	AC152	AC153
ArmorCore Pro	AP150	AP151	AP152	AP153
ArmorCore UR	AU150	AU151	AU152	AU153
ArmorCore Pro UR	UP150	UP151	UP152	UP153

LOFT™
Economy Match: Random L x 36" W Do Not Reverse Sheets
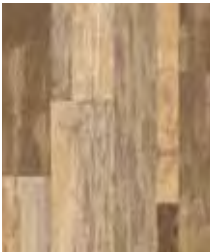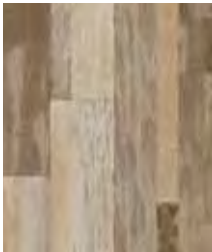
Braun   Warm Driftwood

Color Name	Braun	Warm Driftwood
ArmorCore	AC240	AC241
ArmorCore Pro	AP240	AP241
ArmorCore UR	AU240	AU241
ArmorCore Pro UR	UP240	UP241

OAK RUN™
Economy Match: Random L x 48" W Do Not Reverse Sheets
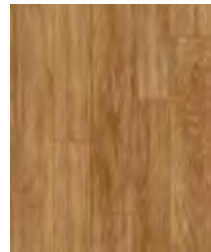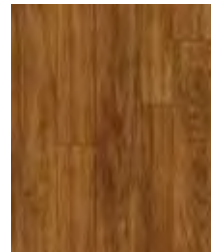
Wheatfield   Marsh Brown

Color Name	Wheatfield	Marsh Brown
ArmorCore	AC410	AC411
ArmorCore Pro	AP410	AP411
ArmorCore UR	AU410	AU411
ArmorCore Pro UR	UP410	UP411

VALLEY PATH™
Economy Match: 27" L x 39.5" W Do Not Reverse Sheets

River Silt
Quicksand
Sandy Brown

Color Name	River Silt	Quicksand	Sandy Brown
ArmorCore	AC430	AC431	AC432
ArmorCore Pro	AP430	AP431	AP432
ArmorCore UR	AU430	AU431	AU432
ArmorCore Pro UR	UP430	UP431	UP432

FARMHOUSE TIMBER™
Economy Match: Random L x 36" W Do Not Reverse Sheets

Honeycomb
Wren
Steel Wool

Color Name	Honeycomb	Wren	Steel Wool
ArmorCore	AC500	AC501	AC502
ArmorCore Pro	AP500	AP501	AP502
ArmorCore UR	AU500	AU501	AU502
ArmorCore Pro UR	UP500	UP501	UP502

CONTEMPO™
Economy Match: 6" L x 6" W Do Not Reverse Sheets

Ballet White

Color Name	Ballet White
ArmorCore	AC600
ArmorCore Pro	AP600
ArmorCore UR	AU600
ArmorCore Pro UR	UP600

ETHEREAL™
Economy Match: 27" L x 72" W Do Not Reverse Sheets
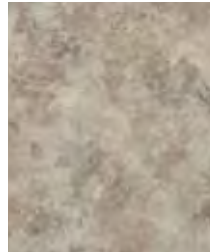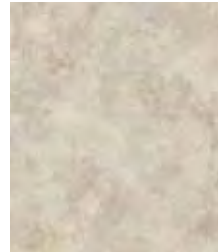
Ancient Ivory
Opaline
Pale Moon

Color Name	Ancient Ivory	Opaline	Pale Moon
ArmorCore	AC810	AC811	AC812
ArmorCore Pro	AP810	AP811	AP812
ArmorCore UR	AU810	AU811	AU812
ArmorCore Pro UR	UP810	UP811	UP812

CANYON VIEW™
Economy Match: 27" L x 36" W Do Not Reverse Sheets

Adobe Cream
Adobe Shadow
Adobe Rust

Color Name	Adobe Cream	Adobe Shadow	Adobe Rust
ArmorCore	AC901	AC902	AC903
ArmorCore Pro	AP901	AP902	AP903
ArmorCore UR	AU901	AU902	AU903
ArmorCore Pro UR	UP901	UP902	UP903

DuraCeramic Dimensions® Featuring SCOTCHGARD PROTECTOR 3M

Tile size: 12" x 24"

ARCHITEXTURE™

DAX00 Turret Gray

DAX01 Linenfold

DAX02 Gothic Arch

BALANCE™

DBA01 Sheer Light

DBA03 Meditation

DBA02 Morning Zen

DBA04 Harmony

ENERGY™
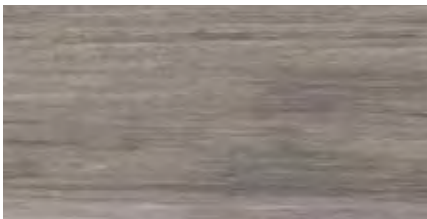
DFS01 Spark

DFS03 Merge

DFS02 Blend

DFS04 Ignite

DuraCeramic Dimensions® Featuring SCOTCHGARD PROTECTOR 3M

NEW PRAIRIE WOOD™
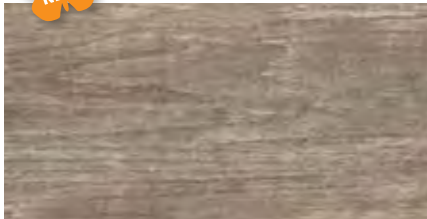
DPW01 Wind Swept

DPW02 Tumbleweed

DPW03 Stagecoach

DPW04 Rain Barrel

REACTION™

DRE01 Echo

DRE02 Reflection

TRAVERTINO™

DTV01 Mist

DTV03 Blush

NEW STONE LEDGES™

DSL02 River Marble

DSL03 Castle Rock

DSL04 Cornice Gray

VISTA™

DVT01 Glacier

DVT02 Coastal Fog

DVT04 Cliffside

DuraCeramic® Origins ^{Featuring} SCOTCHGARD PROTECTOR 3M

AMERICANA™

AC01 Medford Putty

AC02 Lynchfield Gray

AC03 Mystic Gold

AC04 Charlestown Brown

DREAMSCAPE™

DS14 Bleached Almond

DS34 Slate Greige

EARTHPATH™

EP14 Sunny Clay
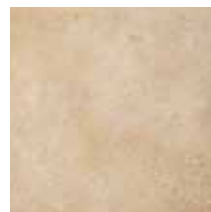
EP41 Sandy Clay

ELEMENTS™

EL01 Breeze

EL02 Waterfall

EL03 Ember

EL04 Fossil

MERCER TILE™
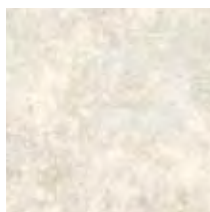
ME13 Fired White
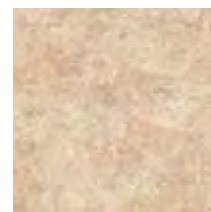
ME41 Fired Bisque

PACIFIC MARBLE™

PC11 Pure White
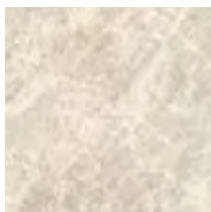
PC14 Light Greige

PATINA™

PT01 Venetian Plaster

PT02 Aged Hearth

PT03 Weathered Zinc
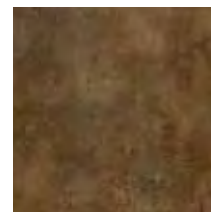
PT04 Worn Leather

RAPOLANO™

RA11 Taffeta White

RA41 Shoreline Mist
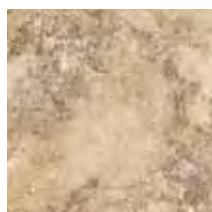
RA47 Bisque

RA64 LeMans Sunset

RA74 Desert Chimney

DuraCeramic® Origins

Featuring SCOTCHGARD PROTECTOR 3M
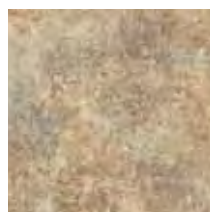
ROMAN ELEGANCE™

RE30 Chateau Gray

RE31 Warm Clay

RE35 Beachcrest

RE43 Light Greige
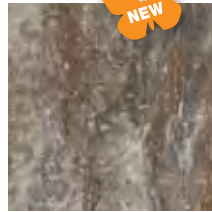
RE44 Stormfront

SIERRA SLATE™

SI14 Warm Pewter

SI34 Rain Cloud

SI39 Blue Slate

SI43 Chocolate

SI47 Flaxen

SI54 Terra Slate

SI64 Bleached Clay

SI74 Golden Greige

RUSTIC STONE™

RU47 Light Beige

SANDALSTONE™

SA41 Bisque Stone

STONEYBROOK™
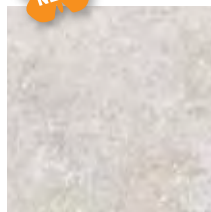
SK01 Cloud Dance
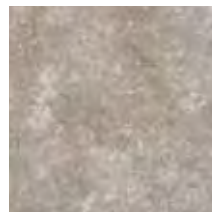
SK02 Gray Morn

SK03 Twilight Gold

SK04 Rich Earth

VILLAGE SLATE™

VS36 Stormy Night

VS46 Tiger Eye

VS74 Swanky Silk

WOODSTOCK™

WD00 Aquarius

WD01 Peace

WD02 Groovy

Ovations®

ALABASTER™

AB14 Classic Bisque
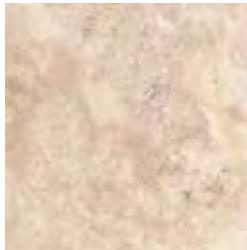
AB41 Light Mocha

STONE FORD™

SF14 Almond
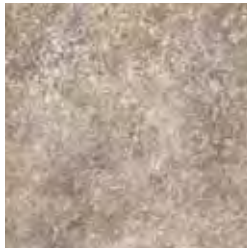
SF34 Stone Greige

SF41 Wheat
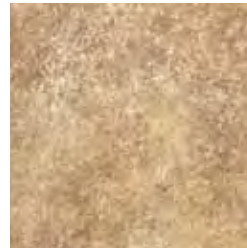
SF47 Golden Clay

SUNSTONE™
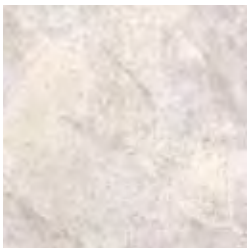
SS11 Stone White
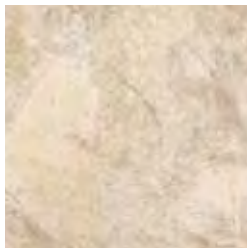
SS47 Sun Beige

SS48 Greige

SS74 Earthen Brown

TEXTURED SLATE™

TE34 Sand

TE39 Bluestone

TE49 Brown

TE54 Clay

TE87 Sage

SWP01 Eastern Beige
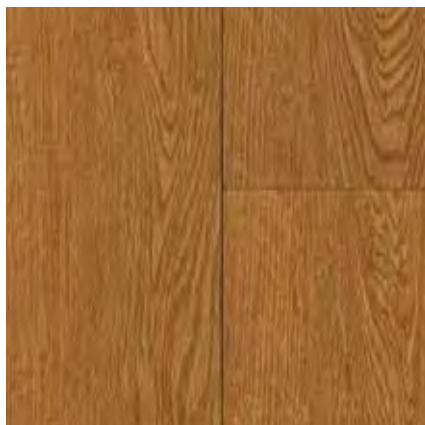
SWP02 Southern Bronze
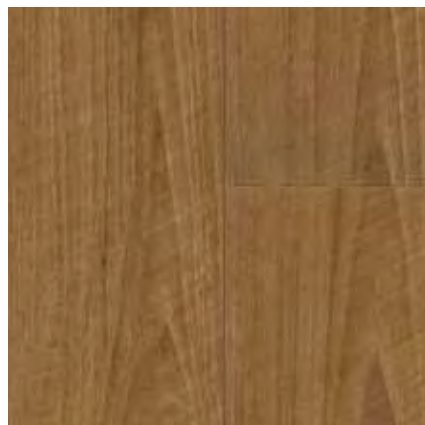
SWP03 Northern Brown

SWP04 Western Dusk

SWP05 Fall Night
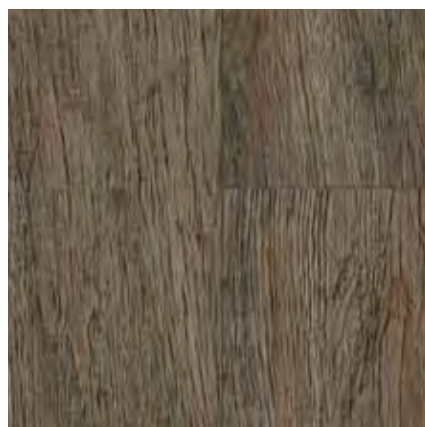
SWP06 Winter Gray

TIMELESS
LUXURY PLANK & TILE
Following pages 26-32.

NEW!

HICKORY **HK200** Blonde | **IMPRESSIONS IM200** Blonde. pg 26.

Structure® NEW

45 DEGREE™

FD14A Sepia Twill

FD14B Sepia Twill

FD15A Charcoal Twill

FD15B Charcoal Twill

FD16A Cocoa Twill

FD16B Cocoa Twill

BARN™

BN210 Aspen White

BN211 Durango Dusk

BN212 Coyote

BN213 Bear Cub

HICKORY™

HK200 Blonde

HK201 Flax

HK202 Fawn

HK203 Bay

HK204 Smoke

IMPRESSIONS™

IM200 Blonde

IM201 Flax

IM202 Fawn

IM203 Bay

IM204 Smoke

TIMELESS

Structure®

Ancient Modern™ Tile

GALAXY™
Tile size: 18" x 36"

AM101 Nebula

AM102 Meteorite

AM103 Nova
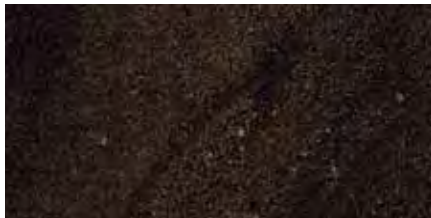
AM104 Starry Night

AM105 Cosmos

TERRA NOVA™
Tile size: 18" x 18"

AM110 Pottery
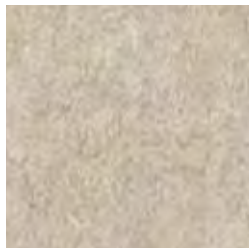
AM111 Alabaster
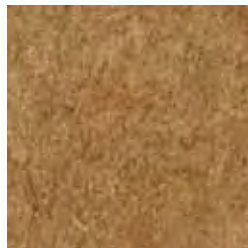
AM112 Saffron

AM113 Wood Bark

AM114 Shale
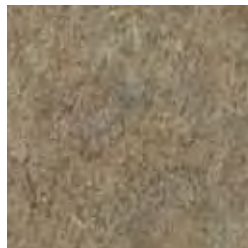
AM115 Olive Moss

CRETE™
Tile size: 18" x 18"

AM120 Pavement

AM121 Loft
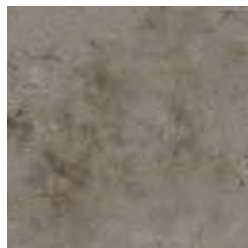
AM122 Graystone

AM123 Dune

AM124 Sidewalk

∞ TIMELESS

Structure®
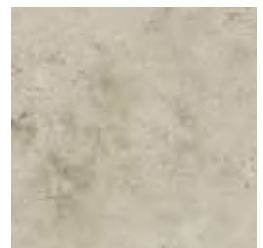
Urban Rustic™ Plank

PIONEER™
Plank size: 7.25" x 48"

UR100 Weathered Cabin

UR101 Frontier

UR102 Rustic Honey

TREK™
Plank size: 7.25" x 48"

UR110 Outback

UR111 Acom

UR112 Timber Wolf

TIMBERLINE™
Plank size: 6" x 48"

UR120 Tundra

UR121 Antler

UR122 Ridge

UR123 Mahogany

UR124 Barkcode

TRAIL™
Plank size: 6" x 48"

UR130 Blaze

UR131 Roots

UR132 Terrain

TIMELESS

Impact® NEW

available in Gluedown or SmartLock

Plank Sizes:
Impact - 6" x 48" & 7.25" x 48"
Impact Smartlock™ - 5.75" x 47.75" & 7" x 47.75"

HOMESTEAD™
Plank size: 7.25" x 48" I SmartLock: 7" x 47.75"

Golden Pasture
Gluedown: **HD130**
SmartLock: **H130S**

Porch Swing
Gluedown: **HD131**
SmartLock: **H131S**

Silver Brush
Gluedown: **HD132**
SmartLock: **H132S**

Hearthside
Gluedown: **HD133**
SmartLock: **H133S**

Country Night
Gluedown: **HD134**
SmartLock: **H134S**

WHITE OAK™
Plank size: 6" x 48" I SmartLock: 5.75" x 47.75"

Butter
Gluedown: **WK100**
SmartLock: **W100S**

Spiced Tea
Gluedown: **WK101**
SmartLock: **W101S**

Raisin
Gluedown: **WK102**
SmartLock: **W102S**

HIGHLANDS™
Plank size: 7.25" x 48" I SmartLock: 7" x 47.75"

White Wisp
Gluedown: **HS140**
SmartLock: **H140S**

Kilmarnock Sage
Gluedown: **HS141**
SmartLock: **H141S**

Ridgewood
Gluedown: **HS142**
SmartLock: **H142S**

Castlegate
Gluedown: **HS143**
SmartLock: **H143S**

ROSEWOOD™
Plank size: 7.25" x 48" I SmartLock: 7" x 47.75"

Oyster
Gluedown: **RW120**
SmartLock: **R120S**

Roasted Maize
Gluedown: **RW121**
SmartLock: **R121S**

Pretzel
Gluedown: **RW122**
SmartLock: **R122S**

Brownie
Gluedown: **RW123**
SmartLock: **R123S**

TIMELESS

HIGHLANDS HS143 Castlegate

OAK™

Golden Oak
Gluedown: **EK036**
SmartLink: **ES036**

Natural Oak
Gluedown: **EK056**
SmartLink: **ES056**

Dark Oak
Gluedown: **EK046**
SmartLink: **ES046**

Driftwood
Gluedown: **EK146**
SmartLink: **ES146**

MAPLE™

Natural
Gluedown: **EK106**
SmartLink: **ES106**

Golden
Gluedown: **EK116**
SmartLink: **ES116**

Cocoa
Gluedown: **EK126**
SmartLink: **ES126**

Bark
Gluedown: **EK136**
SmartLink: **ES136**

RUSTIC™

Nutmeg
Gluedown: **EK076**
SmartLink: **ES076**

Gunstock
Gluedown: **EK086**
SmartLink: **ES086**

Chestnut
Gluedown: **EK096**
SmartLink: **ES096**

TIMELESS

MAPLE EK106 Natural

Alternatives®

AL00 Deep Purple

AL01 Plum

AL02 Lilac

AL06 Multi/Desert

AL10 Multi/Berry

AL11 Pearl White

AL13 Heathered Stone Blue/ Coffee

AL15 Heathered Rose
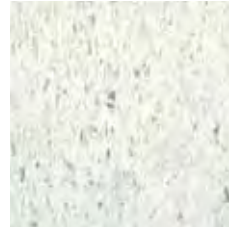
AL18 Emerald Lace

AL19 White/Coastal
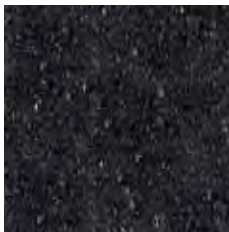
AL21 Ebony
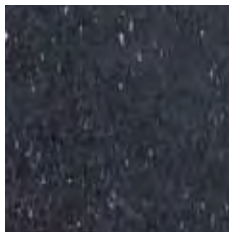
AL25 Confetti Black

AL31 Pewter Shadow

AL32 Medium Stone Gray

AL33 Iron Gray

AL34 Greige/Taupe

AL35 Heathered Blue/Rose

AL37 Putty/Clay/Sienna

AL40 Warm Taupe

AL41 Multi/Toast
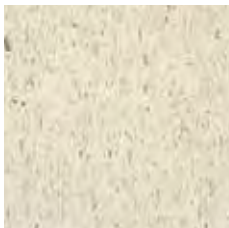
AL43 Mushroom
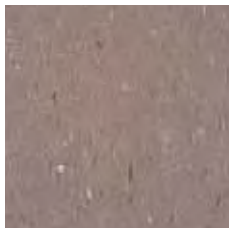
AL44 Coffee/Walnut

AL46 Multi/Coronado

AL47 Golden Wheat

Alternatives®

AL49 Heathered Blue/Mocha

AL56 Soft Shell
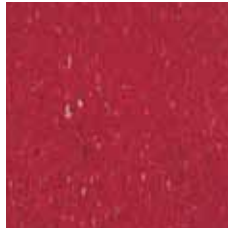
AL59 Cherry Pepper

AL60 Orange Glow

AL64 Santa Fe Clay

AL65 Light Pumpkin

AL70 Brilliant Yellow

AL71 Washed Cornsilk

AL75 Confetti White

AL78 Olive Mist

AL79 Multi/Sea

AL80 Light Berry Blossom
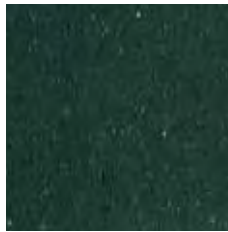
AL82 Forest Green

AL85 Heathered Spruce/ Blush

AL86 Spruce
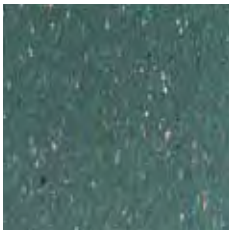
AL87 Multi/Botanical

AL89 Aqua Spring
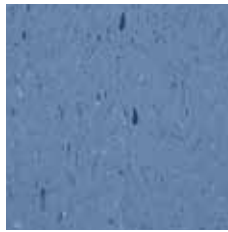
AL90 Horizon Blue

AL91 Cloud Blue

AL92 Denim

AL96 Cobalt Blue

AL99 Multi/Navy

Choices®

CH12 Stone White

CH14 Light Pebble Beige

CH17 Antique White

CH31 Steel

CH41 Light Earthen Taupe

CH47 Mushroom

CX Series®

Commercial Vinyl Composition Tile Flooring - Tile size: 12" x 12"
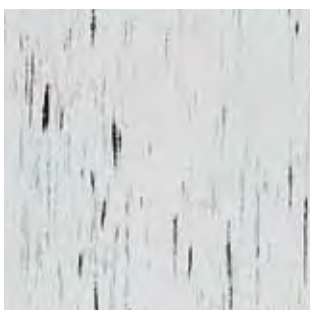
CX12 White/Steel
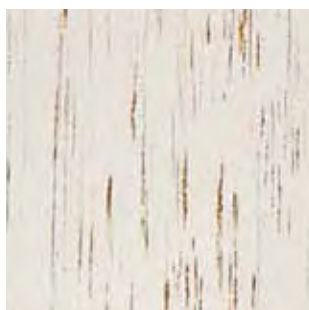
CX14 White/Light Pebble

CX47 Earthen Beige

CX91 White/Deep Blue

2015
Technical Reference Guide

Congoleum®

Technical Data

Left Column

PATTERN NUMBER	PATTERN NAME	YOUR CHOICE INSTALL	REVERSE SHEETS	ECONOMY MATCH FOR SEAMING LENGTH	WIDTH	TRUE DESIGN REPEAT LENGTH	WIDTH
AIRSTEP ADVANTAGE	**Adhesive:** AS-01 **Seam Sealer:** SU106						
88000 - 88005	Savor	Yes*	No	54"	72"	54"	72"
88010 - 88015	Playtime	Yes*	No	Random	48"	54"	48"
88021 - 88024	Cherish	Yes*	No	27"	13.09"	54"	52.36"
88030 - 88033	Unwind	Yes*	No	27"	13.09"	54"	144"
88040 - 88043	Curious	Yes*	No	Random	36"	54"	72"
88050 - 88053	Wonder	Yes*	No	6"	36"	54"	144"
AIRSTEP VIBE	**Adhesive:** AS-01 **Seam Sealer:** SU106						
10500 - 10505	Barcelona	Yes*	No	18"	36"	54"	108"
10510 - 10515	Berlin	Yes*	No	27"	13.09"	54"	144"
10520 - 10525	Boulder	Yes*	No	Random	9"	54"	108"
10530 - 10534	Boston	Yes*	No	18"	18"	54"	72"

Fully adhere in light commercial use.

PATTERN NUMBER	PATTERN NAME	YOUR CHOICE INSTALL	REVERSE SHEETS	ECONOMY MATCH LENGTH	WIDTH	TRUE DESIGN LENGTH	WIDTH
AIRSTEP EVOLUTION	**Adhesive:** AS-01 **Seam Sealer:** SU106						
72000 - 72006	Terrace	Yes*	No	18"	36"	54"	108"
72010 - 72019	Colonial Plank	Yes*	No	Random	36"	54"	72"
72044	Cozumel	Yes*	No	18"	27"	54"	72"
72050 - 72055	Grand Canyon	Yes*	No	13.5"	13.09"	54"	78.54"
72060 - 72062	Fair Wind	Yes*	No	27"	72"	54"	72"
72063 - 72067	Rendezvous	Yes*	No	27"	9"	54"	72"
72080 - 72083	Pathways	Yes*	No	27"	36"	54"	72"
72090 - 72093	Traverstone	Yes*	No	27"	13.09"	54"	144"
72100 - 72104	Forest Valley	Yes*	No	Random	8"	54"	48"
AIRSTEP PLUS	**Adhesive:** AS-01 **Seam Sealer:** SU106						
58000 - 58001	North Star	Yes*	No	18"	36"	18"	36"
58005 - 58008	Woodland	Yes*	No	9"	9"	54"	72"
58010 - 58011	Satin Cloud	Yes*	No	27"	72"	54"	72"
58020 - 58026	Starlight	Yes*	No	27"	26.18"	54"	26.18"
58040 - 58041	Western Slate	Yes*	No	27"	36"	54"	72"
58072	Quest	Yes*	No	27"	36"	54"	144"
58080 - 58082	Crossing	Yes*	No	54"	72"	54"	72"
58090 - 58092	Windswept	Yes*	No	Random	72"	54"	72"
58100 - 58102	Oxford Square	Yes*	No	6"	6"	54"	108"
58110 - 58112	Horizon	Yes*	No	27"	13.09"	54"	52.36"
58120 - 58122	Edgewood	Yes*	No	Random	36"	54"	72"
AIRSTEP BASIX	**Adhesive:** AS-01 **Seam Sealer:** SU106						
41010 - 41011	Acadia	Yes*	No	18"	18"	18"	18"
41020 - 41021	Sedona	Yes*	No	9"	9"	54"	72"
41030 - 41033	Panorama	Yes*	No	27"	39.5"	54"	144"
41042	Random Plank	Yes*	No	Random	48"	54"	48"
41050 - 41052	Flagstone	Yes*	No	27"	24"	27"	24"

* *Your Choice Plus* - Fully adhere; perimeter fasten; loose lay.

PATTERN NUMBER	PATTERN NAME	YOUR CHOICE INSTALL	REVERSE SHEETS	ECONOMY MATCH LENGTH	WIDTH	TRUE DESIGN LENGTH	WIDTH
ULTIMA	**Adhesive:** 3044 **Seam Sealer:** SU106						
UL002	Hampton Crossing	Yes	No	6"	36"	54"	36"
UL012 - UL014	Natural Plank	Yes	No	27"	48"	54"	48"
UL112	Random Paver	Yes	No	27"	24"	27"	24"
UL164	Brazilian Slate	Yes	No	18"	36"	18"	36"
UL210 - UL213	Sonoma	Yes	No	18"	18"	18"	18"
UL230 - UL233	Pebble Creek	Yes	No	Random	Random	Random	Random
UL250 - UL256	Sahara	Yes	No	27"	13.09"	54"	144"
UL260 - UL263	Brookside	Yes	No	27"	36"	27"	36"
UL280	Montego Slate	Yes	No	9"	36"	54"	144"
UL300 - UL303	SoHo Slate	Yes	No	27"	72"	54"	72"
UL350	Mesa Slate	Yes	No	27"	39.5"	54"	144"
UL370 - UL372	Sandstone	Yes	No	27"	36"	54"	144"

Right Column

PATTERN NUMBER	PATTERN NAME	YOUR CHOICE INSTALL	REVERSE SHEETS	ECONOMY MATCH LENGTH	WIDTH	TRUE DESIGN LENGTH	WIDTH
PRELUDE	**Adhesive:** 3044 **Seam Sealer:** SU80 or SU92						
02040 - 02045	Seasons	Yes	No	6"	6"	54"	36"
02055 - 02056	Natural Oak	Yes	No	13.5"	13.09"	13.5"	13.09"
02060 - 02062	Escape	Yes	No	27"	26.18"	54"	52.36"
02080 - 02084	Chateau	Yes	No	9"	9"	54"	36"
02111 - 02112	Monaco	Yes	No	9"	36"	27"	36"
02116 - 02117	Naples	Yes	No	13.5"	13.09"	54"	144"
02120 - 02122	Mohave Stone	Yes	No	27"	18"	54"	144"
02140 - 02142	Plaza Court	Yes	No	9"	9"	54"	72"
ARMORCORE	**Adhesive:** 3044 **Seam Sealer:** SU80 or SU92						
AC130 - AC132	Woodridge	Yes	No	9"	9"	54"	72"
AC150 - AC153	Terrace Paver	Yes	No	18"	36"	54"	108"
AC240 - AC241	Loft	Yes	No	Random	36"	54"	72"
AC410 - AC411	Oak Run	Yes	No	Random	48"	54"	48"
AC430 - AC432	Valley Path	Yes	No	27"	39.5"	54"	144"
AC500 - AC502	Farmhouse Timber	Yes	No	Random	36"	54"	72"
AC600	Contempo	Yes	No	6"	6"	54"	108"
AC810 - AC812	Ethereal	Yes	No	27"	72"	54"	72"
AC901 - AC903	Canyon View	Yes	No	27"	36"	54"	72"
ARMORCORE PRO	**Adhesive:** AS-01 **Seam Sealer:** SU80 or SU92						
AP130 - AP132	Woodridge	Yes*	No	9"	9"	54"	72"
AP150 - AP153	Terrace Paver	Yes*	No	18"	36"	54"	108"
AP240 - AP241	Loft	Yes*	No	Random	36"	54"	72"
AP410 - AP411	Oak Run	Yes*	No	Random	48"	54"	48"
AP430 - AP432	Valley Path	Yes*	No	27"	39.5"	54"	144"
AP500 - AP502	Farmhouse Timber	Yes*	No	Random	36"	54"	72"
AP600	Contempo	Yes*	No	6"	6"	54"	108"
AP810 - AP812	Ethereal	Yes*	No	27"	72"	54"	72"
AP901 - AP903	Canyon View	Yes*	No	27"	36"	54"	72"

* *Your Choice Plus* - Fully adhere; perimeter fasten; loose lay.

PATTERN NUMBER	PATTERN NAME	YOUR CHOICE INSTALL	REVERSE SHEETS	ECONOMY MATCH LENGTH	WIDTH	TRUE DESIGN LENGTH	WIDTH
ARMORCORE UR	**Adhesive:** 3044 **Seam Sealer:** SU106						
AU130 - AU132	Woodridge	Yes	No	9"	9"	54"	72"
AU150 - AU153	Terrace Paver	Yes	No	18"	36"	54"	108"
AU240 - AU241	Loft	Yes	No	Random	36"	54"	72"
AU410 - AU411	Oak Run	Yes	No	Random	48"	54"	48"
AU430 - AU432	Valley Path	Yes	No	27"	39.5"	54"	144"
AU500 - AU502	Farmhouse Timber	Yes	No	Random	36"	54"	72"
AU600	Contempo	Yes	No	6"	6"	54"	108"
AU810 - AU812	Ethereal	Yes	No	27"	72"	54"	72"
AU901 - AU903	Canyon View	Yes	No	27"	36"	54"	72"
ARMORCORE PRO UR	**Adhesive:** AS-01 **Seam Sealer:** SU106						
UP130 - UP132	Woodridge	Yes*	No	9"	9"	54"	72"
UP150 - UP153	Terrace Paver	Yes*	No	18"	36"	54"	108"
UP240 - UP241	Loft	Yes*	No	Random	36"	54"	72"
UP410 - UP411	Oak Run	Yes*	No	Random	48"	54"	48"
UP430 - UP432	Valley Path	Yes*	No	27"	39.5"	54"	144"
UP500 - UP502	Farmhouse Timber	Yes*	No	Random	36"	54"	72"
UP600	Contempo	Yes*	No	6"	6"	54"	108"
UP810 - UP812	Ethereal	Yes*	No	27"	72"	54"	72"
UP901 - UP903	Canyon View	Yes*	No	27"	36"	54"	72"

* *Your Choice Plus* - Fully adhere; perimeter fasten; loose lay.

PATTERN NUMBER	PATTERN NAME	YOUR CHOICE INSTALL	REVERSE SHEETS	ECONOMY MATCH LENGTH	WIDTH	TRUE DESIGN LENGTH	WIDTH
ZōN	**Adhesive:** AS-01 or AD62 **Seam Sealer:** SU80 or SU92						
10800-10805	Diamond	NA	No	12"	12"	12"	12"
10810-10815	Honeycomb	NA	No	24"	24"	24"	24"
10820-10825	Geometric	NA	No	24"	24"	24"	24"

Technical Data

Residential Resilient Sheet Flooring

Product	Construction	Packaging		Ship. Weight		Applicable Federal Specifications *	Warranty
		Width	S/Y	Per Unit	Per Pkg.		
AIRSTEP ADVANTAGE featuring Scotchgard™ Protector and Silver Antibacterial Product Protection	UltraTec Construction Wearlayer: Vinyl Resin and Urethane with Aluminum Oxide Cushion: High Density Vinyl Foam Inner Liner: White Shield Filled Fibrous Composition Backing: Dense Vinyl Composition	12'	80-150	4.35 lbs. per S/Y	590 lbs. Avg.	ASTM F1303, Type I, Grade 2	AirStep Lifetime Limited Warranty
AIRSTEP VIBE featuring Scotchgard™ Protector and Silver Antibacterial Product Protection	UltraTec Construction Wearlayer: Vinyl Resin and Urethane with Aluminum Oxide Cushion: High Density Vinyl Foam Inner Liner: White Shield Filled Fibrous Comp. Backing: Dense Vinyl Composition	12'	80-160	4.0 lbs. per S/Y	580 lbs. Avg.	ASTM F1303, Type I, Grade 1	AirStep Lifetime 5 Year Commercial Limited Warranty
AIRSTEP EVOLUTION featuring Scotchgard™ Protector and Silver Antibacterial Product Protection	UltraTec Construction Wearlayer: Vinyl Resin and Urethane with Aluminum Oxide Cushion: High Density Vinyl Foam Inner Liner: White Shield Filled Fibrous Composition Backing: Dense Vinyl Composition	12'	80-160	4.05 lbs. Per S/Y	590 lbs. Avg.	ASTM F1303, Type I, Grade 3	AirStep 50 Year Limited Warranty
AIRSTEP PLUS featuring Scotchgard™ Protector and Silver Antibacterial Product Protection	UltraTec Construction Wearlayer: Vinyl Resin and Urethane Cushion: High Density Vinyl Foam Inner Liner: White Shield Filled Fibrous Composition Backing: Dense Vinyl Composition	12'	80-160	3.41 lbs. Per S/Y	500 lbs. Avg.	ASTM F1303, Type I, Grade 3	AirStep 20 Year Limited Warranty
AIRSTEP BASIX Matte Finish Wearlayer	UltraTec Construction Wearlayer: Vinyl Resin and Urethane Cushion: High Density Vinyl Foam Inner Liner: White Shield Filled Fibrous Composition Backing: Dense Vinyl Composition	12'	80-160	3.11 lbs. Per S/Y	490 lbs. Avg.	ASTM F1303, Type I, Grade 3	AirStep 10 Year Limited Warranty
ULTIMA featuring Scotchgard™ Protector and Silver Antibacterial Product Protection	Wearlayer: Vinyl Resin and Urethane Reinforced with Nylon and Aluminum Oxide Cushion: High Density Vinyl Foam Backing: White Shield Filled Fibrous Composition BAC STOP Protection	12'	80-160	3.5 lbs. Per S/Y	470 lbs. Avg.	ASTM F1303, Type I, Grade 2	50 Year Limited Warranty
PRELUDE Standard ArmorGuard Wearlayer	ArmorGuard Construction Wearlayer: Vinyl Resin Composition Cushion: High Density Vinyl Foam Backing: White Shield Filled Fibrous Composition BAC STOP Protection	6' 12'	40-130 80-190	2.75 lbs. Per S/Y 2.75 lbs. Per S/Y	252 lbs. Avg. 490 lbs. Avg.	ASTM F1303, Type I, Grade 3	5 Year Limited Warranty
ARMORCORE Matte Finish Wearlayer	ArmorGuard Construction Wearlayer: Low Gloss Vinyl Resin Composition Cushion: High Density Vinyl Foam Backing: White Shield Filled Fibrous Composition BAC STOP Protection	6' 12'	40-130 80-190	2.71 lbs. Per S/Y 2.71 lbs. Per S/Y	257 lbs. Avg. 276 lbs. Per S/Y	ASTM F1303, Type I, Grade 3	5 Year Residential Limited Warranty
ARMORCORE PRO Matte Finish Wearlayer	UltraTec Construction Wearlayer: Low Gloss Vinyl Resin Composition Cushion: High Density Vinyl Foam Backing: Fibrous Felt Inner Layer and Dense Flexible Vinyl Composite Backing	6' 12'	40-130 80-170	2.9 lbs. Per S/Y 2.9 lbs. Per S/Y	230 lbs. Avg. 460 lbs. Avg.	ASTM F1303, Type I, Grade 3	5 Year Residential Limited Warranty
ARMORCORE UR Matte Finish Wearlayer SDS - Stain Defense System	ArmorGuard Construction Wearlayer: Vinyl Resin and Urethane Cushion: High Density Vinyl Foam Backing: White Shield Filled Fibrous Composition BAC STOP Protection	6' 12'	40-130 80-190	2.71 lbs. Per S/Y 2.71 lbs. Per S/Y	276 lbs. Avg. 459 lbs. Avg.	ASTM F1303 Type 1 Grade 3	10 Year Residential Limited Warranty
ARMORCORE UR PRO Matte Finish Wearlayer SDS - Stain Defense System	UltraTec Construction Wearlayer: Vinyl Resin and Urethane Cushion: High Density Vinyl Foam Backing: Fibrous Felt Inner Layer and Dense Flexible Vinyl Composite Backing	6' 12'	40-130 80-160	3.3 lbs. Per S/Y 3.3 lbs. Per S/Y	248 lbs. Avg. 496 lbs. Avg.	ASTM F1303, Type I, Grade 3	10 Year Residential Limited Warranty

Commercial Resilient Sheet Flooring

Product	Construction	Overall Gauge (Nominal)	Packaging		Ship. Wt.		Static Load Limit ASTM F970	Applicable Federal Specifications	Warranty
			Width	S/Y Width	Per Unit	Per Pkg.			
ZōN Standard Wearlayer	Homogeneous Sheet	NA	10'	55-124	5.5 lbs. Per S/Y	627 lbs. Avg.	Exceeds 250 lbs. per sq. inch	ASTM F1913	10 Year Limited Residential / 5 Year Limited Commercial Warranty

floor score
by SCS certified.

All products are FloorScore Certified for indoor air quality performance. FloorScore certified hard surface flooring products are an alternative compliance to LEED credit EQ4.3 Low-Emitting Materials: Flooring Systems. For questions regarding any Congoleum flooring product consult the Congoleum website: www.congoleum.com.

Technical Data

DuraCeramic Origins and DuraCeramic Dimensions

Product	Construction	Gauge (Nominal)	Size (Nominal)	Packaging			Carton Weight	DS100 Adhesive	DS200 Joint Sealer	DuraCeramic Premixed Grout	Warranty
				Sq. Ft. per Carton	Pieces per Carton	Cartons per Pallet					
DURACERAMIC ORIGINS featuring Scotchgard™ Protector Silver Antibacterial Product Protection	Nano-composite surface glaze Reinforced with Nylon particles Limestone composite base	.160"	15 5/8" x 15 5/8"	17	10	48	30.5 lbs.	Yes	Yes	Yes	Lifetime†† Residential Limited Warranty
DURACERAMIC DIMENSIONS featuring Scotchgard™ Protector Silver Antibacterial Product Protection	Nano-composite surface glaze Reinforced with Nylon particles Limestone composite base	.160"	12" x 24"	20	10	36	36 lbs.	Yes	Yes	Yes	Lifetime†† Residential Limited Warranty

Residential Tile and Plank

Product	Construction	Gauge (Nominal)	Size (Nominal)	Packaging			Carton Weight	AD32 or DS100 Adhesive	DuraCeramic Premixed Grout	Warranty
				Sq. Ft. per Carton	Pieces per Carton	Cartons per Pallet				
OVATIONS	Nano-composite surface glaze Limestone composite base	.140"	14" x 14"	20.4	15	45	32.7 lbs.	Yes	Yes	20 Year Residential Limited Warranty
SOTTO	Natural Low-Gloss Urethane	.080"	6" x 36"	36	24	66	28 lbs.	Yes	N/A	5 Year Residential Limited Warranty

Commercial Composition Tile

Product	Wearlayer	Gauge	Packaging			Carton Weight	Static Load Limit ***	Federal Specifications *	AD-42 Adhesive	Warranty
			Sq. Ft. per Carton	Pieces per Carton	Cartons per Pallet					
ALTERNATIVES	Vinyl Composition	1/8"	45	45	45	64 lbs.	250 lbs. per sq. inch	ASTM F1066, Class 2	Yes	10 Year Limited Warranty **
CHOICES	Vinyl Composition	1/8"	45	45	45	64 lbs.	250 lbs. per sq. inch	ASTM F1066, Class 2	Yes	10 Year Limited Warranty **
CX SERIES	Vinyl Composition	.100"	45	45	54	54 lbs.	250 lbs. per sq. inch	ASTM F1066, Class 2△	Yes	10 Year Limited Warranty **

NOTES:

* All products listed above pass N.B.S. Smoke Density testing (ASTM E662-450 or less). All products listed pass Critical Radiant Flux (ASTM E648-0.45 w/cm² or greater).

†† DuraCeramic and DuraCeramic Dimensions and when installed in a light commercial application, carry a Five-Year Commercial Limited Warranty.

** Alternatives, Choices and CX Series, when installed in a commercial application, carry a Five-Year Commercial Limited Warranty.

*** Static Load Limit: Laboratory test to determine 24 hr. residual indentation, not exceeding .005", after application of specific weight for 24 hours.

△ When .100" gauge is specified.

Technical Data
Timeless Luxury Vinyl Tile and Plank
STRUCTURE

Product	Wearlayer	Gauge	Size	Packaging			Carton Weight	Static Load Limit **	Federal Specifications *	Adhesive		Warranty
				Sq. Ft. per Carton	Pieces per Carton	Cartons per Pallet				AD-32 Pressure Sensitive Adhesive ****	AD-62 Wet Set Adhesive *****	
STRUCTURE TILE 18" x 36"	.020" High Performance Urethane Aluminum Oxide	.120"	18" x 36"	36	8	52	40 lbs.	Exceeds 2,500 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	Residential - Lifetime Commercial - 10 Year Limited Warranty
STRUCTURE TILE 18" x 18"	.020" High Performance Urethane Aluminum Oxide	.120"	18" x 18"	36	16	52	42 lbs.	Exceeds 2,500 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	Residential - Lifetime Commercial - 10 Year Limited Warranty
STRUCTURE PLANK 6" x 48"	.020" High Performance Urethane Aluminum Oxide	.120"	6" x 48"	36	18	55	42 lbs.	Exceeds 2,500 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	Residential - Lifetime Commercial - 10 Year Limited Warranty
STRUCTURE PLANK 7.25" x 48"	.020" High Performance Urethane Aluminum Oxide	.120"	7.25" x 48"	36.25	15	52	42 lbs.	Exceeds 2,500 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	Residential- Lifetime Commercial- 10 Year Limited Warranty
STRUCTURE PLANK 9" x 48"	.020" High Performance Urethane Aluminum Oxide	.120"	9" x 48"	36	12	52	42 lbs.	Exceeds 2,500 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	Residential - Lifetime Commercial - 10 Year Limited Warranty

IMPACT

Product	Wearlayer	Gauge	Size	Packaging			Carton Weight	Static Load Limit **	Federal Specifications *	Adhesive		Warranty
				Sq. Ft. per Carton	Pieces per Carton	Cartons per Pallet				AD-32 Pressure Sensitive Adhesive ****	AD-62 Wet Set Adhesive *****	
IMPACT 7.25" x 48"	.012" High Performance Urethane	.100"	7.25" x 48"	38.67	16	52	36.9 lbs.	Exceeds 250 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	25 Year Residential / 7 Year Light Commercial Limited Warranty
IMPACT 6" x 48"	.012" High Performance Urethane	.100"	6" x 48"	36	18	55	34.4 lbs.	Exceeds 250 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	25 Year Residential / 7 Year Light Commercial Limited Warranty
IMPACT SMARTLOCK 7" x 47.75"	.012" High Performance Urethane	.128"	7" x 47.75"	37.14	16	40	48 lbs.	Exceeds 250 psi	ASTM F 1700 Class lll, Type B	N/A	N/A	25 Year Residential / 7 Year Light Commercial Limited Warranty
IMPACT SMARTLOCK 5.75" x 47.75"	.012" High Performance Urethane	.128"	5.75" x 47.25"	30.51	16	50	39 lbs.	Exceeds 250 psi	ASTM F 1700 Class lll, Type B	N/A	N/A	25 Year Residential / 7 Year Light Commercial Limited Warranty

ENDURANCE

Product	Wearlayer	Gauge	Size	Packaging			Carton Weight	Static Load Limit **	Federal Specifications *	Adhesive		Warranty
				Sq. Ft. per Carton	Pieces per Carton	Cartons per Pallet				AD-32 Pressure Sensitive Adhesive ****	AD-62 Wet Set Adhesive *****	
ENDURANCE 6" x 36"	.008" Urethane Finish	.080"	6" x 36"	36	16	72	27 lbs.	Exceeds 250 psi	ASTM F 1700 Class lll, Type B	Yes	Yes	10 Year Residential / 5 Year Light Commercial Limited Warranty
ENDURANCE SMARTLINK 6" x 36"	.005" Urethane Finish	.120"	6" x 48"	36	18	55	34.4 lbs.	Exceeds 250 psi	ASTM F 1700 Class lll, Type B	N/A	N/A	10 Year Residential / 5 Year Light Commercial Limited Warranty

NOTES:

* All products listed above pass N.B.S. Smoke Density testing (ASTM E662-450 or less). All products listed pass Critical Radiant Flux (ASTM E648-0.45 w/cm2 or greater).

*** Static Load Limit: Laboratory test to determine 24 hr. residual indentation, not exceeding .005", after application of specific weight for 24 hours.

Grout Recommendations

DuraCeramic Origins

Design	SKU	1st Choice	2nd Choice
AMERICANA	AC01	DG35	DG11
	AC02	DG02	DG39
	AC03	DG04	DG11
	AC04	DG04	DG42
DREAMSCAPE	DS14	DG14	DS49
	DS34	DG39	DG35
EARTHPATH	EP14	DG35	DG44
	EP41	DG02	DG05
ELEMENTS	EL01	DG14	DG35
	EL02	DG11	DG09
	EL03	DG04	DG35
	EL04	DG04	DG47
MERCER TILE	ME13	DG14	DG49
	ME41	DG15	DG05
PACIFIC MARBLE	PC11	DG14	DG35
	PC14	DG14	DG35
PATINA	PT01	DG44	DG35
	PT02	DG04	DG09
	PT03	DG09	DG47
	PT04	DG04	DG07
RAPOLANO	RA11	DG49	DG14
	RA41	DG44	DG14
	RA47	DG44	DG11
	RA64	DG04	DG44
	RA74	DG35	DG44
ROMAN ELEGANCE	RE30	DG14	DG39
	RE31	DG14	DG15
	RE35	DG35	DG44
	RE43	DG39	DG14
	RE44	DG09	DG47
RUSTIC STONE	RU47	DG44	DG35
SANDALSTONE	SA41	DG39	DG14
SIERRA SLATE	SI14	DG39	DG14
	SI34	DG04	DG02
	SI39	DG02	DG09
	SI43	DG04	DG07
	SI47	DG04	DG35
	SI54	DG42	DG04
	SI64	DG05	DG35
	SI74	DG44	DG35
STONEYBROOK	SK01	DG15	DG14
	SK02	DG11	DG35
	SK03	DG35	DG05
	SK04	DG09	DG47
VILLAGE SLATE	VS36	DG47	DG09
	VS46	DG04	DG42
	VS74	DG35	DG04
WOODSTOCK	WD00	DG11	DG02
	WD01	DG11	DG09
	WD02	DG04	DG09

Ovations

Design	SKU	1st Choice	2nd Choice
ALABASTER	AB14	DG14	DG15
	AB41	DG15	DG05
STONE FORD	SF14	DG14	DG15
	SF34	DG02	DG39
	SF41	DG05	DG44
	SF47	DG44	DG42
SUNSTONE	SS11	DG14	DG35
	SS47	DG39	DG06
	SS48	DG42	DG04
	SS74	DG44	DG35
TEXTURED SLATE	TE34	DG44	DG35
	TE39	DG47	DG04
	TE49	DG04	DG42
	TE54	DG04	DG44
	TE87	DG44	DG04

DuraCeramic Dimensions

Design	SKU	1st Choice Grout	2nd Choice Grout
ARCHITEXTURE	DAX00	DG11	DG04
	DAX01	DG04	DG05
	DAX02	DG47	DG09
BALANCE	DBA01	DG35	DG04
	DBA02	DG44	DG35
	DBA03	DG04	DG42
	DBA04	DG07	DG42
ENERGY	DFS01	DG11	DG09
	DFS02	DG42	DG44
	DFS03	DG09	DG04
	DFS04	DG42	DG09
PRAIRIE WOOD	DPW01	DG35	DG11
	DPW02	DG09	DG04
	DPW03	DG04	DG35
	DPW04	DG04	DG07
REACTION	DRE01	DG14	DG35
	DRE02	DG35	DG05
STONE LEDGES	DSL02	DG35	DG05
	DSL03	DG11	DG02
	DSL04	DG47	DG09
TRAVERTINO	DTV01	DG14	DG39
	DTV03	DG35	DG14
VISTA	DVT01	DG35	DG14
	DVT02	DG04	DG39
	DVT04	DG09	DG11

Congoleum Grout Colors

▲ DG49 Light Almond

▲ DG14 Biscuit

▲ DG15 Bone

▲ DG35 Navajo Brown

▲ DG44 Pale Umber

▲ DG06 Harvest

▲ DG39 Ivory

▲ DG02 Pewter

▲ DG05 Chamois

▲ DG42 Mocha

▲ DG07 Chocolate

▲ DG04 Bahama Beige

▲ DG11 Sahara Beige

▲ DG09 Gray

▲ DG47 Charcoal

DuraCeramic Origins, ROMAN ELEGANCE RE30 Chateau Gray, Half Drop, Grout DG02 Pewter

DuraCeramic Installation Materials

	DS200 DuraCeramic Joint Sealer	DuraCeramic Premixed Grout
Order Code	DS200	Use specific color code (DG-xx)
Description	Water-based, flexible acrylic sealer	Premixed sanded, acrylic grout
Use	Optional for sealing joints in ungrouted DuraCeramic Origins or DuraCeramic Dimensions floors only. Not recommended for Ovations.	For use with DuraCeramic Origins, DuraCeramic Dimensions and Ovations in grouting joints 1/8" to 1/4" wide. Can also be used for grouting most ceramic, quarry and porcelain floor tile.
Limitations	Not recommended for ceramic, porcelain, or natural stone.	Not recommended for nonvitreous tiles or natural stone, exterior use, shower floors or underwater use.
Coverage	320 sq. ft. per 8 oz. bottle	(see coverage table below)

Coverage table (DuraCeramic Premixed Grout):

Joint Width	Approximate Coverage	
	Sq. Ft./Qt.	Sq. Ft./Gal.
1/8" (3.2 mm)	80 (7.4 m^2)	325 (31 m^2)
3/16" (4.8 mm)	70 (6.5 m^2)	275 (26 m^2)
1/4" (6.4 mm)	55 (5 m^2)	225 (21 m^2)

	DS200 DuraCeramic Joint Sealer	DuraCeramic Premixed Grout
Applicator	Applicator nozzle included	Hard rubber float or green epoxy float. Cleanup using DuraCeramic Installation Accessory Kit (0001) containing a firm sponge and two 3M white pads
Working Time	N/A	10 minutes - for best results apply grout in a 20 sq. ft. area and clean up immediately.
Set Up Time	Tack free: 1 hour Set up: 8 hours	16 to 24 hours
Clean Up	Wet: Water, Dry: Mineral spirits, Caution: Mineral spirits is flammable.	Wet: Water, Dry: Household ammonia cleaner. Do not use grout haze removers.
Color	White, turns clear when dry	Popular versatile colors available
Tracers	N/A	N/A
Unit Size	8 oz. bottle	1 qt. (6/ctn.); 1 gal. (4/ctn.)
Shelf Life	1 year if unopened	2 years if unopened
Freeze/Thaw Stability	Yes	Yes
Flammable	No	No
Warnings	Potential skin and eye irritant	Potential skin, eye and respiratory irritant

ZōN Reducer

To finish the edges of ZōN where flooring transitions to a flat surface. Color matching reducer pieces.

SKU	Color	SKU	Color	SKU	Color
ZR000	Yellow	ZR002	Blue	ZR004	Gray
ZR001	Red	ZR003	Beige	ZR005	Black

ZōN Reducer
1" wide x 0.80" x 10 ft.

ZōN Welding Rod - for heat welding ZōN seams

SKU	Color	SKU	Color	SKU	Color
ZWD00	Yellow	ZWD02	Blue	ZWD04	Gray
ZWD01	Red	ZWD03	Beige	ZWD05	Black

0.160" diameter
x 150 lineal foot spool

Congoleum Adhesives

	3044 Premium Flooring Adhesive	AD-42 Clear Thin-Spread Adhesive	AD-32 Adhesive	AD62 Commercial Flooring Adhesive	AS-01 AirStep Adhesive	DS100 DuraSet Adhesive
Order Code:	03044	AD42	AD32	AD62	AS01	DS100
Use	Ultima Prelude ArmorCore UR ArmorCore	Commercial Composition Tile	Structure* Ovations Impact Endurance Sotto	Structure Impact ZōN	AirStep Advantage AirStep Vibe AirStep Evolution AirStep Plus • AirStep Basix ArmorCore Pro UR ArmorCore Pro • ZōN	DuraCeramic Origins DuraCeramic Dimensions Ovations Structure • Impact Endurance Sotto
Tracers	Green/Ultramarine	Red/Green	Green	None	Navy Blue	Dark Red
Advantages	Moisture and alkali resistant, hard setting, resists indentations, nonstaining.	Moisture and alkali, resistant, develops high initial tack. Solvent free, low odor.	Moisture and alkali resistant, develops high initial tack. Solvent free, low odor.	Hard setting, restricts indentation and thermal dimensional changes, moisture and alkali resistant	Moisture and alkali resistant, good initial tack. Solvent free, low odor.	Moisture and alkali resistant, high initial tack. Solvent free, low odor.
Type	Water based/Latex	Pressure sensitive/ Water based/Latex	Pressure sensitive/ Water based/Acrylic	Wet Set, Water based acrylic	Transitional Water based/Acrylic	Pressure sensitive/ Water based/Acrylic
Subfloors	Dry concrete on all grade levels, suspended wood floors, metal, terrazzo, ceramic, marble, approved resilient floor covering and suitable portland cement-based	Dry concrete on all grade levels, suspended wood floors, and approved resilient floor covering.	Dry concrete on all grade levels, suspended wood floors, approved resilient floor covering, and Congoleum UnderFlor.	Dry concrete on all grade levels, suspended wood floors, cement terrazo and portland cement based leveling products	Dry concrete on all grade levels, suspended wood floors, metal, terrazzo, ceramic, marble, approved resilient floor covering and suitable portland cement-based embossing leveler.	Dry concrete on all grade levels, suspended wood floors, approved resilient floor covering, and Congoleum UnderFlor.
Trowel	1/16" wide x 1/32" deep x 1/32" apart, all substrates.	1/16" wide x 1/32" deep x 1/32" apart	1/16" wide x 1/32" deep x 1/32" apart, trowel blade adaptor included.	**Porous substrates:** 1/16" wide x 1/16" deep x 1/16" apart - square-notch **Non-porous substrates:** 1/32" wide x 1/16" deep x 1/32" apart - U-notch	1/16" wide x 1/32" deep x 1/32" apart (For all AirStep products on non-porous subfloors, apply with 1/4" nap paint roller.	1/16" wide x 1/32" deep x 1/32" apart, trowel blade adaptor included.
Working Time	15 - 20 minutes	6 hours Dry to tack - 1 hour	12 hours Dry to tack - 30-60 min. under normal conditions	Up to 20 to 30 minutes depending substrate porosity	**Wet:** 15 - 20 minutes Dry to tack - 15-30 min. under normal conditions.	12 hours Dry to tack - 45-60 min. normal conditions.
Spread Rate	**Fully Adhered:** 150-270 sq. ft./gal. **Perimeter:** 4 in. band - 750 lin. ft./gal. **Perimeter:** 6 in. band - 500 lin. ft./gal. **Seams:** 8 in. band - 375 lin. ft./gal.	250 - 300 sq. ft./gal.	200 - 250 sq. ft./gal.	**Trowel notch:** 1/16" wide x 1/16" deep x 1/16" apart -125 to 150 sq. ft./gal. **Trowel notch:** 1/32" wide x 1/16" deep x 1/32" apart - 185 to 245 sq. ft./gal.	**Fully Adhered:** **Trowel:** 200 - 250 sq. ft./gal. Paint Roller: 600 sq. ft./gal. **Loose Lay Seams:** 4 in. band - 750 lin. ft./gal. **Loose Lay and Perimeter Fasten Seams:** 6" band - 500 lin. ft./gal.	200 - 250 sq. ft./gal.
Freeze/Thaw Stable	Yes	Yes	Yes	Yes	Yes	Yes
Flammability	Nonflammable	Nonflammable	Nonflammable	Nonflammable	Nonflammable	Nonflammable
Cleanup	**Wet:** Soap and Water **Dry:** Clean cloth dampened with mineral spirits.*	**Wet:** Soap and Water **Dry:** Clean cloth dampened with mineral spirits.*	**Wet:** Soap and Water **Dry:** Clean cloth dampened with mineral spirits.*	**Wet:** Soap and Water Dry: Clean cloth dampened with mineral spirits.*	**Wet:** Soap and Water Dry: Clean cloth dampened with mineral spirits.*	**Wet:** Soap and Water Dry: Clean cloth dampened with mineral spirits.*
Shelf Life	One year if unopened	One year if unopened	One year if unopened	One year if unopened	One year if unopened	One year if unopened
Sizes	Qt. (12/ctn,) 1 gal. (4/ctn.), 4 gal.	1 gal. (4/ctn.), 4 gal.	1 gal. (4/ctn.), 4 gal.	4 gal.	Qt. (12/ctn,) 1 gal. (4/ctn.), 4 gal.	Qt. (12/ctn,) 1 gal. (4/ctn.), 4 gal.

3044, AD42, AS01, DS100 and AD32 Adhesives - Warning: Eye and skin irritant. Caution: Mineral spirits are flammable.

*AD32 is recommended for residential and light commercial applications of Structure and Impact.

TRADEMARKS

Registered trademarks of Congoleum Corporation: AirStep, AirStep Advantage, AirStep Basix, AirStep Evolution, AirStep Plus, AirStep Vibe, Alternatives, AlumaTEC, Ancient Modern, ArmorCore, ArmorCore Pro, ArmorCore UR, ArmorCore Pro UR, ArmorGuard, Bac Stop, Bright 'N Easy, Choices, Chromabond, Congoleum, CX Series, DuraCeramic, DuraCeramic Dimensions, DuraSet, Endurance, Endurance SmartLink, Five-Star, Impact, Impact SmartLock, Ovations, Prelude, Scuff-Tuff, Ultima, UnderFlor, UltraShield, Urban Rustic, White Shield and ZōN.

Trademarks of Congoleum Corporation: Acadia, Alabaster, Architexture, Americana, Balance, Barcelona, Barn, Berlin, Boulder, Boston, Brazilian Slate, Brookside, Cambridge Tile, Canyon View, Chateau, Cherish, Colonial Plank, Contempo, Cozumel, Crete, Crossing, Curious, Dreamscape, Diamond, Earthpath, Edgewood, Elements, Energy, Escape, Ethereal, Fair Wind, Flagstone, Farmhouse Timber, Forest Grove, Forest Valley, Fulton Square, Galaxy, Geometric, Grand Canyon, Hampton Crossing, Harmony, Hearthstone, Heirloom, Heritage Oak, Hickory, Highlands, Homestead, Honeycomb, Horizon, Impressions, Loft, Maple, Marcellina, Mercer Tile, Mesa, Mesa Slate, Mirage, Mohave Stone, Monaco, Montego Slate, Naples, Natural Oak, Natural Plank, North Star, Northampton, Oak, Oak Run, Origin, Overall, Oxford Square, Pacific Marble, Palisade, Panorama, Paradise, Parlor, Patagonia, Pathways, Patina, Pebble Creek, Pioneer, Plank, Playtime, Plaza Court, Prairie Wood, Progression, Quarry Ridge, Quartz, Quest, Rain Dance, Random Paver, Random Plank, Rapolano, Reaction, Renaissance, Rendezvous, Roman Elegance, Rosewood, Rustic, Rustic Stone, Sahara, Sandalstone, Sandstone, Satin Cloud, Savor, Seasons, Sedona, Shale Stone, Sierra Slate, SoHo Slate, Sonoma, Stain Defense System, Starlight, Stone Ford, Stoneybrook, Sunstone, Stone Ledges, Terano, Terrace, Terrace Paver, Terra Nova, Terrazzo, Textured Slate, Timberline, Timber Trail, Trail, Traverstone, Travertino, Trek, UltraTec, Unwind, Valley Path, Village Slate, Vineyard, Vista, WearTec, Western Slate, White Oak, Windswept, Wonder, Woodland, Wood Ridge, Woodstock, Your Choice, 9" Block, 6" Block, AD32, AD42, AS01, DS100, DS200, SU80, SU92, SU102, SU106, TO70, 3044 and 45 Degree.

3M, Scotchgard and the plaid design are trademarks of 3M.

Congoleum Seam Sealers

	SU92 Seam Sealer	SU80 Seam Sealer Kit	SU106 Seam Sealer Kit
Order Code	**SU092**	**SU080**	**SU106**
Use	Used to seal seams on: • ArmorCore Pro • Prelude • ArmorCore • ZōN TO70 Applicator Kit is required.	Used to seal seams on: • ArmorCore Pro • Prelude • ArmorCore • ZōN Applicator Included	Used to seal seams on: • AirStep Vibe • AirStep Basix • AirStep Advantage • ArmorCore Pro UR • AirStep Evolution • ArmorCore UR • AirStep Plus • Ultima Applicator Included
Tack Free	20 minutes	20 minutes	2 hours
Set-Up Time	2 hours	2 hours	16 hours
Coverage	200 lin. ft.	50 lin. ft./kit	70 lin. ft./kit
Freeze/Thaw Stable	Not affected by freezing	Not affected by freezing	Not affected by freezing
Cleanup	Wet: Blot with cloth dampened with spirits. Dry: Not removable.	Wet: Blot with cloth dampened with spirits. Dry: Not removable.	Wet: Blot with cloth dampened with spirits. Dry: Not removable.
Shelf Life	One year if unopened	One year if unopened	One year if unopened
Sizes	8 fl. oz. can (12 cans/carton)	2 fl. oz. per kit (12 kits/carton)	2 fl. oz. per kit (6 kits/carton)

SU92, SU80 and SU106 - WARNING: Flammable liquids; vapor harmful; eye and skin irritant.

YOUR CHOICE Installation

All Congoleum residential floors with White Shield Felt Backing can be installed by the *Your Choice* Installation System. This system provides you with options for installing the flooring either fully adhered or perimeter fastened over approved wood subfloors, concrete and properly prepared existing resilient flooring products. The products covered under *Your Choice* are:

• Ultima • ArmorCore UR
• Prelude • ArmorCore

YOUR CHOICE PLUS Installation

All Congoleum floors with UltraTec construction can be installed by the *Your Choice Plus* Installation System. This system allows you to install UltraTec products fully adhered, perimeter fastened or loose laid over approved wood subfloors, concrete and properly prepared existing resilient flooring products.

The products covered under *Your Choice Plus* are:
AirStep Advantage, AirStep Vibe (in residential use), AirStep Evolution, AirStep Plus, AirStep Basix, ArmorCore Pro UR and ArmorCore Pro.

The Your Choice Plus Installation System is not recommended for light commercial applications.

YOUR CHOICE Installation

QuikStik Tape
Order Code: QS120
A double-sided tape for use with AirStep products for seams in loose lay and perimeter fastened installations and for securing the perimeter on perimeter fastened jobs. Available in 2 1/2" x 120' rolls. **Coverage:** For Seams - 120 lineal ft.; for perimeter installations - 2 – 12' x 18' rooms or 1 – 50 sq. yd. room.

Endurance with SmartLink Adhesive Film
Order Code: CF910
For use with Endurance to reverse the direction in which the planks are being fastened or for repairs. Available in 3" x 9' rolls.

UnderFlor Underlayment
Order Code: UF120 or UFB07 for smaller rolls
The all-in-one underlayment system for floating installations of Congoleum DuraCeramic Origins, DuraCeramic Dimensions, Endurance, Impact and Ovations products. Available in 6' x 180' rolls (120 sq. yds. [1,080 sq. ft.]), or 6' x 16' 7 rolls (11.11 sq. yds. [100 sq. ft.]).

TO70 Seam Sealer Applicator Kit
Order Code: T0070
Required when sealing seams with SU92 Seam Sealer. Kit contains two 6 oz. plastic squeeze bottles, two TO70 applicator nozzles, two cleaning wires, and instructions. Packed 24 kits per carton. Available in single kits from distributors.

DuraCeramic Installation Accessory Kit
Order Code: DD01
For easy grout clean up kit contains two white 3M pads and sponge.

Installation Instructions
For complete installation information and installation videos, visit us online at www.congoleum.com.

Congoleum Residential Floor Care Products

Bright 'N Easy No-Rinse Cleaner
Order Code: 03001 Sizes: 32 oz., 12 bottles/ctn.
Order Code: 3001G Sizes: 128 oz., 4 bottles/ctn.

Bright 'N Easy Floor Polish
Order Code: 03002 Sizes: 32 oz., 12 bottles/ctn.
Order Code: 3002G Sizes: 128 oz., 4 bottles/ctn.

Bright 'N Easy Satin-Gloss Floor Polish
Order Code: 03007 Sizes: 32 oz., 12 bottles/ctn.
Order Code: 3007G Sizes: 128 oz., 4 bottles/ctn.

Bright 'N Easy Floor Polish Remover
Order Code: 03003 Sizes: 32 oz., 12 bottles/ctn.
Order Code: 3003G Sizes: 128 oz., 4 bottles/ctn.

Bright 'N Easy Spray Cleaner
Order Code: 03008 Sizes: 32 oz., 12 bottles/ctn.

Congoleum Commercial Floor Care Products

Bright 'N Easy Commercial No-Rinse Cleaner
Order Code: 5001C Size: 5 gallon pail, 1 pail/ctn.

Bright 'N Easy Commercial Floor Polish
Order Code: 5002C Size: 5 gallon pail, 1 pail/ctn.

Bright 'N Easy Commercial Floor Polish Remover
Order Code: 5003C Size: 5 gallon pail, 1 pail/ctn.

Congoleum®

2015 ULTRATEC®

Installation Instructions

AirStep Advantage® • AirStep Vibe®
AirStep Evolution® • AirStep Plus®
AirStep Basix® • ArmorCore™ Pro UR
ArmorCore™ Pro

Congoleum®
www.congoleum.com

Installation Instructions for: AirStep Advantage, AirStep Vibe, AirStep Evolution, AirStep Plus, AirStep Basix, ArmorCore Pro UR and ArmorCore Pro

UltraTec construction provides controlled stability and eliminates curl allowing the flooring to be installed by the *Your Choice Plus Installation System* which includes the fully adhered, perimeter fastened and loose lay installation methods. Depending on the method used, the floor can be installed with AS-01 Adhesive or QuikStik Tape.

ULTRATEC INSTALLATION CHOICES		
Your Choice Plus Installation System	AS-01 Adhesive	QuikStik Tape
Loose Laid (Seams)	✓	✓
Perimeter Fastened	✓	✓
Fully Adhered	✓	

When AirStep Vibe is installed in light commercial applications it must be fully adhered with AS01 adhesive.

The best method for a particular job depends on the subfloor conditions. For example, the fully adhered method is recommended where the subfloor is smooth, structurally sound and free of movement, in a variety of applications including complex room layouts or where net fitting or coving is required.

The perimeter fastening and loose lay methods provide subfloor masking benefits to allow installation over a greater variety of surfaces that might otherwise be unsatisfactory for a fully adhered application.

The loose lay method is recommended for room layouts where trim can be installed around the entire perimeter.

The perimeter fastening method can be used for most applications and it provides not only subfloor masking benefits, but also provides the option to fit flooring net where it is not desirable to install trim. Plus AS-01 Adhesive provides a releasable bond, so in the event that it becomes necessary to get access to the subfloor, you can pull the sheet back without damaging it.

General Information

Recommended Installation Accessories
- AS-01 Adhesive (See Adhesive Coverage chart on page 3 for spread rate coverage.)
- QS120 QuikStik Tape (For loose lay at seams and for perimeter installations)
- SU106 Seam Sealer

Recommended Use
- Residential applications on all grade levels
- Interior use in dry, heated areas
- Do not install over ramps, in showers or other wet areas

Installation Temperature
Condition the room(s) and all flooring materials at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours before, during and 48 hours after installation. Thereafter maintain temperatures between 55°F (13°C) and 100°F (38°C).

Handling and Storage
Always keep flooring rolled face out, wrapped tightly around a rigid core until ready for installation. Avoid distorting the flooring. Always store rolls on a continuous flat surface. Do not stack other rolls or heavy objects on flooring.

Subfloor Recommendations

Subfloor Construction Materials	Comments	Fully Adhered	Perimeter Fastened	Loose Laid	Notes
Wood	• Double layer plywood construction over joist or trusses	Yes	Yes	Yes	Subfloor must be smooth, solid and free of movement, set fasteners below the surface.
	• Single layer Sturd-I-Floor 23/32" (18 mm) or heavier installed over joists or trusses, 16"(41 cm) or 19.2" (49.2 cm) OC	Install wood underlayment	Yes	Yes	
	• Hardwood or strip wood installed over wood subfloors	Install wood underlayment	Yes	Yes	Double layer construction maximum 3" board width
	• Hardwood floors installed over concrete	No	No	No	Remove hardwood and prepare concrete
Underlayment	• APA underlayment grade plywood and other wood veneer underlayments that are recommended for resilient flooring	Yes	Yes	Yes	Weather damaged or rough surface materials must be sanded smooth or covered with a recommended underlayment. Fill gaps wider than 1/32" (.8 mm).
	• Oriented Strand Board (OSB)	Install wood underlayment	Yes	Yes	
	• NPA-rated Particleboard	Install wood underlayment	Yes	Yes	
Concrete	• On, above and below grade level	Yes	Yes	Yes	Moisture vapor emissions should not exceed 3 lbs. (1.4 kg) or 75% RH.
	• Radiant heat floors not to exceed 85°F (29.9°C)	Yes	Yes	Yes	
Gypsum Topping	• Minimum 2000 (907kg) PSI Compressive Strength	No	Yes	Yes	Fill depressions and cracks wider than 1/32" (.8 mm).
Lightweight Concrete	• Minimum 100-pound (45kg) density Minimum 3000 PSI (1361kg) compressive strength	Yes	Yes	Yes	
Resilient Floor	• Smooth surface resilient sheet and tile flooring	Yes	Yes	Yes	Must be single layer of flooring, fully adhered and well bonded.
	• Textured surface resilient sheet and tile	Prepare with embossing leveler or new underlayment			
	• Do not install over soft, heavy, cushioned floors, floors with a cushioned backing, asphalt tile or tile installed below grade level.	Remove or cover with new underlayment as appropriate			Follow Recommended Work Practices.
Ceramic and Stone	• Ceramic, marble and granite	Yes	Yes	Yes	Apply skim coat(s) to level the surface.

General Subfloor Information

All subfloor surfaces must be clean, dry, smooth and free of reagents or contaminates that can stain flooring or interfere with adhesion.

Wood Floors must be structurally sound and free of movement with at least 18" (46 cm) of well-ventilated air space below. Sand joints smooth and setfasteners 1/32" (.8 mm) below the surface. Rough, weathered or damaged subfloor panels must be sanded smooth or covered with a suitable underlayment panel. Fill underlayment joints wider than 1/32" (.8 mm).

Flooring installed directly over single layer wood subfloors present a higher risk for joint telegraphing, protruding nail heads or fasteners and bottom up staining from paint overspray, spills, subfloor construction adhesive, coated fasteners or other contaminates.

The subfloor panel must be a Sturd-I-Floor rated panel with a sanded face and Exposure 1 or Exterior classification. Congoleum will not assume responsibility for claims related to the subfloor material regardless of the underlayment or subfloor material used.

Concrete Floors must be clean, dry and smooth. Level rough or uneven surfaces, cracks and control joints with a portland cement-based patching compound. Do not install flooring over expansion joints. Moisture vapor emissions must not exceed 3 lbs./1000 ft. 2 (1.4kg/92.9m^2)/24 hours when tested with the Anhydrous Calcium Chloride Test (ASTM F 1869) or 75% RH when tested in accordance with (ASTM F-2170) "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using in situ Probes".

Resilient Floors must be single layer, fully adhered over an approved subfloor and securely bonded. Remove all wax, floor finish or polish prior to installation. Do not install AirStep products over soft, heavily cushioned floors, floors with a cushioned backing, asphalt tile, self-adhered tile or tile installed below grade level.

⚠ *WARNING: EXISTING IN-PLACE RESILIENT FLOOR COVERING AND ASPHALTIC ADHESIVES. DO NOT SAND, DRY SCRAPE, DRY SWEEP, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVE OR OTHER ADHESIVE.*

These **existing in-place** products may contain **asbestos fibers** and/or **crystalline silica.** Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm.

Unless positively certain that the in-place product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern removal and disposal of material. See current addition of the Resilient Floor Covering Institute (RFCI) publication *Recommended Work Practices for the Removal of Resilient Floor Coverings* for instructions on removing all resilient floor covering structures or contact your retailer or Congoleum Corporation Installation and Technical Office (609) 584-3805.

Adhesive

AS-01 Adhesive is recommended for use with all UltraTec products installed fully adhered and perimeter fastened and under seams in loose lay applications.

AS-01 provides a releasable bond when it is applied with a 1/4" nap paint roller and allowed to dry to a tack before laying the flooring in to it. A trowel can be used as an alternate method over porous surfaces only. In this case the flooring is laid into the wet adhesive immediately after spreading it and a permanent bond is achieved.

Adhesive Application

Installation Method	Performance	Subfloor	Applicator	Condition
Fully Adhere Perimeter Fasten	Releasable Bond	Porous or nonporous surfaces	1/4" (6.4mm) nap paint roller	Tacky Dry
Loose Lay Seams				
Fully Adhere	Permanent (non-releasable bond)	Porous surfaces *only*	1/16" x 1/32" x 1/32" (1.6mm x .8mm x .8mm) Trowel	Wet Set

AS-01 Adhesive and QuikStik Tape Coverage

Installation Method	Location	Adhesive Application	Quart	Gallon	QuikStik
Fully Adhered	N/A	Trowel (4.65m² - 6m²)	50 - 65 sq. ft. (18.6m² - 23.2m²)	200 - 250 sq. ft.	N/A
Fully Adhered	N/A	Paint Roller (7m² - 7.9m²)	75 - 85 sq. ft. (27.9m² - 32.5m²)	300 - 350 sq. ft.	N/A
Perimeter Adhered perimeter	4" (10.2cm) Band at the	Paint Roller	200 - 225 lin. ft (60.1m - 68.6m)	800 - 900 lin. ft. (203m - 228m) (41.8m²)	50 sq. yd. room per roll
Perimeter Adhered and Loose Lay Seams	6" (15.4cm) Band at Seams	Paint Roller	150 - 180 lin. ft. (45.7m - 55m)	600 - 700 lin. ft. (182m - 213m)	120 lin.ft. per roll (36.58 lin. meters)

Preparing the Area

- Remove all furniture and appliances from the room.
- Remove all trim and transition moldings.
- Undercut door trim to allow flooring to slide under freely.
- Prepare the subfloor and sweep or vacuum thoroughly to remove all loose dirt and debris.

   Note: When using the QuikStik Installation System, follow instructions for applying tape prior to unrolling the floor.

One Piece Installation
Fully Adhered Method
Use Congoleum AS-01 Adhesive for all fully adhered installations.

Follow the recommendations listed under General Information.

Flooring Layout

- Unroll the flooring using care to prevent distortions and position it squarely in the room to achieve the best design layout.
- Make relief cuts down to the floor/wall juncture at inside and outside corners.
- Allow the flooring to relax and flatten. If necessary use a soft bristle push broom to remove any distortions or air pockets.

Flooring can be fit net in areas where no finished trim will be installed. Do not fit the floor tight.

Porous and Nonporous Surfaces

To adhere the floor, lap or tube back one-half of the sheet using care to avoid creasing or bending it. Apply AS-01 Adhesive with a 1/4" (6.4mm) nap paint roller over the exposed subfloor and in a straight line up to the edge of the sheet. The adhesive should be applied in a light stippled pattern at a rate of 300 to 350 sq. ft. ($27.9m^2 - 32.5m^2$) /gallon. Allow adhesive to dry completely, about 15 to 30 minutes (will not transfer to the finger when touched) before repositioning the sheet. This method provides a releasable bond in the event it is necessary to lift or adjust the sheet.

Optional Method for Porous Surfaces Only

AS-01 Adhesive can be applied with a 1/16" x 1/32" x 1/32" (1.6mm x .8mm x .8mm) notched trowel in lieu of a paint roller over porous surfaces only. When this method is used, the flooring must be laid into the wet adhesive immediately after spreading it. This method provides a permanent bond. Carefully push the flooring back into the adhesive without lifting it, to avoid trapping air under it. Immediately and prior to foot traffic, roll the floor in both directions with a 100 pound (45kg) or heavier three section roller starting from the center and working out toward the edges. Repeat this process on the other half of the sheet.

Perimeter Fasten Method

Follow recommendations listed under General Information. Sweep or vacuum the floor thoroughly to remove all dirt and grit. Install flooring within 4 hours after laying it out. If the flooring is being installed with QuikStik Tape, apply the tape prior to unrolling the flooring. Unroll flooring using care to avoid distortions. In long narrow areas or in more intricate room layouts, place a string over the grout line and check to make sure the floor is straight and not bowed. Adjust the flooring to remove bow if necessary. Where finished trim will be installed, fit the floor with a 1/16" (1.6mm) space between the edge of the sheet and the walls and other vertical surfaces. Where no finished trim will be used, fit the floor flush or net. Tight or compression fitting is not recommended.

After fitting the floor to the room and flattening all distortions, fasten the entire perimeter with adhesive, QuikStik Tape or staples (on wood floors only). If using a combination of adhesive, staples and QuikStik tape complete the adhered areas first.

QuikStik Tape or AS-01 Adhesive is required under all seams, at net fitted areas, in front of cabinet toe spaces, at fixtures and floor vents and over concrete and other hard surfaces.

Fastening the Perimeter with Adhesive

To adhere the perimeter, carefully lay the edge of the floor back using care to avoid creasing it. Apply a 4" (10.2cm) band of adhesive along the perimeter using a 4" (10.2cm) x 1/4" (6.4mm) nap paint roller. Allow adhesive to set for 15 to 30 minutes or until tacky dry. Use a fan to accelerate drying if working in a cool or damp environment. Lay the floor into the adhesive immediately while pushing any roll distortions out toward the perimeter. Thoroughly roll the adhered area with a steel hand roller. Repeat the process to adhere the entire perimeter.

QuikStik Tape

Prior to unrolling the floor, position QuikStik Tape along the perimeter of the room, at all floor vents and columns. Position the tape within 1/4" away from the wall at net fit areas and within 1/2" away from the wall in areas that will be covered with trim. Do not overlap the tape or attempt to reposition it once it is laid into place. Roll the tape with a steel hand roller. ***Do not remove the release liner.***

Flooring Layout

- Unroll the flooring using care to prevent distortions and position it squarely in the room to achieve the best design layout.
- Make relief cuts down to the floor/wall juncture at inside and outside corners.
- Allow the flooring to relax and flatten. If necessary use a soft bristle push broom to remove any distortions or air pockets.

If using a combination of QuikStik tape and staples, complete the taped areas first. Turn back one edge of the sheet and remove the release liner leaving 12" to 18" covered at the ends. This will allow the adjacent sides to be turned back easily. Lay the edge back into place and continue working around the room removing the release liner and pushing the flooring back into place. In more complicated room layouts it maybe necessary to turn back larger sections of the floor to remove the release liner. Once the flooring is in place and all distortions are flat, roll the perimeter with a steel hand roller. To complete the installation, apply a thin bead of caulking at all net fits and wet areas.

Staples can also be used in lieu of adhesive to fasten the perimeter in areas where trim will be installed on installations over wood subfloors. The minimum staple size is 1/2" (12.7mm) crown with a 3/8" ((9.5mm) leg. Use the longest staple length that can be seated tightly to the floor surface. Staple every 3" (7.6cm) along the wall, 1/4" (6.4mm) away from the edge of the sheet. After the floor has been fastened, install trim to cover staples.

Loose Lay Method

Follow recommendations listed under General Information. Sweep or vacuum the floor thoroughly to remove all dirt and grit.

Install flooring within 4 hours after laying it out.

Flooring Layout

- Unroll the flooring using care to prevent distortions and position it squarely in the room to achieve the best design layout.
- Make relief cuts down to the floor/wall juncture at inside and outside corners.
- Allow the flooring to relax and flatten. If necessary use a soft bristle push broom to remove any distortions or air pockets.

Trim the floor allowing a 1/16" (1.6mm) space between the edge of the sheet and the walls and other vertical surfaces. Trim flooring long at door trim and slide it under to achieve a finished appearance.

All finish trim and transition moldings must cover the edge of the flooring by at least 3/8" (9.5mm) and must be installed so they do not bind or restrict the flooring. Shoe molding, quarter-round and other trim should be positioned lightly on the floor and fastened to the wall, not to the subfloor. Transition moldings should be installed allowing a 1/8" (3.2mm) space between the edge of the sheet and the fasteners.

To prevent forced air from "pillowing" the loose laid flooring, we recommend applying duct tape to the inside of the heat duct and about 1/2" (12.7mm) onto the flooring, making sure that the register flange covers the tape.

Bathroom Installations

The flooring should be secured to the subfloor in front of tubs, showers or other wet areas. Place a strip of QuikStik Tape at the base of a bath tub or shower. Secure the edge of the sheet in the tape and seal it with a silicone caulking. Bathrooms that require more extensive net fitting should be installed perimeter fastened or fully adhered.

Seaming Specifications

Pattern Number	Pattern Name	Reverse Sheets	Economy Match Length	Economy Match Width	Actual Repeat Length	Repeat Width
AIRSTEP ADVANTAGE®	**Adhesive: AS01**		**Seam Sealer: SU106**			
88000 - 88005	Savor™	No	54" (137.2 cm)	72" (182.9 cm)	54" (137.2 cm)	72" (182.9 cm)
88010 - 88015	Playtime™	No	Random	48" (121.9 cm)	54" (137.2 cm)	48" (121.9 cm)
88021 - 88024	Cherish™	No	27" (68.6 cm)	13.09" (33.3 cm)	54" (137.2 cm)	52.36" (132.9 cm)
88030 - 88033	Unwind™	No	27" (68.6 cm)	13.09" (33.3 cm)	54" (137.2 cm)	144" (365.8 cm)
88040 - 88043	Curious™	No	Random	36" (91.4 cm)	54" (137.2 cm)	72" (182.9 cm)
88050 - 88053	Wonder™	No	6" (15.24 cm)	36" (91.4 cm)	54" (137.2 cm)	144" (365.8 cm)
AIRSTEP Vibe®	**Adhesive: AS01**		**Seam Sealer: SU106**			
10500 - 10505	Barcelona™	No	18" (45.7 cm)	36" (91.4 cm)	18" (45.7 cm)	36" (91.4 cm)
10510 - 10515	Berlin™	No	27" (68.6 cm)	13.09" (33.25 cm)	54" (137.2 cm)	78.54" (199.49 cm)
10520 - 10525	Boulder™	No	Random	9" (22.9 cm)	54" (137.2 cm)	72" (182.9 cm)
10530 - 10534	Boston™	No	18" (45.7 cm)	18" (45.7 cm)	54" (137.2 cm)	48" (121.9 cm)
AIRSTEP EVOLUTION®	**Adhesive: AS01**		**Seam Sealer: SU106**			
72000 - 72006	Terrace™	No	18" (45.7 cm)	36" (91.4 cm)	54" (137.2 cm)	108"(274.3 cm)
72010 - 72019	Colonial Plank™	No	Random	36" (91.4 cm)	54" (137.2 cm)	72" (182.9 cm)
72044	Cozumel™	No	18" (45.7 cm)	27" (68.6 cm)	54" (137.2 cm)	72" (182.9 cm)
72050 - 72055	Grand Canyon™	No	13.5" (34.29 cm)	13.09" (33.25 cm)	54" (137.2 cm)	78.54" (199.49 cm)
72060 - 72062	Fair Wind™	No	27" (68.6 cm)	72" (182.9 cm)	54" (137.2 cm)	72" (182.9 cm)
72063 - 72067	Rendezvous™	No	27" (68.6 cm)	9" (22.9 cm)	54" (137.2 cm)	72" (182.9 cm)
72080 - 72083	Pathways™	No	27" (68.6 cm)	36" (91.4 cm)	54" (137.2 cm)	108" (274.3 cm)
72090 - 72093	Traverstone™	No	27" (68.6 cm)	13.09" (33.25 cm)	54" (137.2 cm)	144" (365.8 cm)
72100 - 72104	Forest Valley™	No	Random	8" (20.32 cm)	54" (137.2 cm)	48" (121.9 cm)
AIRSTEP PLUS®	**Adhesive: AS01**		**Seam Sealer: SU106**			
58000 - 58001	North Star™	No	18" (45.7 cm)	36" (91.4 cm)	18" (45.7 cm)	36" (91.4 cm)
58005 - 58008	Woodland™	No	9" (22.9 cm)	9" (22.9 cm)	54" (137.2 cm)	72" (182.9 cm)
58010 - 58011	Satin Cloud™	No	27" (68.6 cm)	72" (182.9 cm)	54" (137.2 cm)	72" (182.9 cm)
58020 - 58026	Starlight™	No	27" (68.6 cm)	26.18" (67 cm)	54" (137.2 cm)	26.18" (67 cm)
58040 - 58041	Western Slate™	No	27" (68.6 cm)	36" (91.4 cm)	54" (137.2 cm)	72" (182.9 cm)
58072	Quest™	No	27" (68.6 cm)	36" (91.4 cm)	54" (137.2 cm)	144" (365.8 cm)
58080 - 58082	Crossing™	No	54" (137.2 cm)	72" (182.9 cm)	54" (137.2 cm)	72" (182.9 cm)
58090 - 58092	Windswept™	No	Random	72" (182.9 cm)	54" (137.2 cm)	72" (182.9 cm)
58100 - 58102	Oxford Square™	No	6" (15.24 cm)	36" (91.4 cm)	54" (137.2 cm)	108" (274.3 cm)
58110 - 58112	Horizon™	No	27" (68.6 cm)	13.09" (33.25 cm)	54" (137.2 cm)	52.36" (132.9 cm)
58120 - 58122	Edgewood™	No	Random	36" (91.4 cm)	54" (137.2 cm)	72" (182.9 cm)
AIRSTEP BASIX®	**Adhesive: AS01**		**Seam Sealer: SU106**			
41010 - 41011	Acadia™	No	18" (45.7 cm)	18" (45.7 cm)	18" (45.7 cm)	18" (45.7 cm)
41020 - 41021	Sedona™	No	9" (22.9 cm)	9" (22.9 cm)	54" (137.2 cm)	72" (182.9 cm)
41030 - 41033	Panorama™	No	27" (68.6 cm)	39.5" (103.3 cm)	54" (137.2 cm)	144" (365.8 cm)
41042	Random Plank™	No	Random	48" (121.9 cm)	54" (137.2 cm)	48" (121.9 cm)
41050 - 41052	Flagstone™	No	27" (68.6 cm)	24" (61.0 cm)	27" (68.6 cm)	24" (61.0 cm)

Pattern Number	Pattern Number	Pattern Name	Reverse Sheets	Economy Match Length	Economy Match Width	Actual Repeat Length	Actual Repeat Width
ARMORCORE™ PRO	**ARMORCORE® PRO UR**	**Adhesive: AS-01**		**PRO: Seam Sealer: SU80 or SU92**		**PRO UR: Seam Sealer: SU106**	
AP130 - AP132	UP130 - UP132	Woodbridge™	No	9" (22.9 cm)	9" (22.9 cm)	54" (137.2 cm)	72" (182.9 cm)
AP150 - AP153	UP150 - UP153	Terrace Paver™	No	18" (45.7 cm)	36" (91.4 cm)	54" (137.2 cm)	108" (274.3 cm)
AP240 - AP241	UP240 - UP241	Loft™	No	Random	36" (91.4 cm)	54" (137.2 cm)	72" (182.9 cm)
AP410 - AP411	UP410 - UP411	Oak Run™	No	Random	48" (121.9 cm)	54" (137.2 cm)	48" (121.9 cm)
AP430 - AP432	UP430 - UP432	Valley Path™	No	27" (68.6 cm)	39.5" (103.3 cm)	54" (137.2 cm)	144" (365.8 cm)
AP500 - AP502	UP500 - UP502	Farmhouse Timber™	No	Random	36" (91.4 cm)	54" (137.2 cm)	72" (182.9 cm
AP600	UP600	Contempo™	No	6" (15.24 cm)	6" (15.24 cm)	54" (137.2 cm)	108" (274.3 cm)
AP810 - AP812	UP810 - UP812	Ethereal™	No	27" (68.6 cm)	72" (182.9 cm)	54" (137.2 cm)	72" (182.9 cm)
AP901 - AP903	UP901 - UP903	Canyon View™	No	27" (68.6 cm)	36" (91.4 cm)	54" (137.2 cm)	72" (182.9 cm)

Seaming

Place seams

- In the least conspicuous and least traveled area in the room.
- A minimum of 6" (15.4 cm) away from parallel underlayment joints.
- At least 6" (15.4 cm) away from seams in existing sheet flooring or within the center of a row of tile.

Matching Designs

Always install sheets in the order they were cut from the roll, starting with the first sheet.

Seaming Specifications

Reverse Sheets - Rotate alternating sheets 180° to seam the same edges together.

Do Not Reverse - Seam opposite edges together.

When estimating flooring, add 3" (7.7cm) to the length of the room dimension for the first sheet and 3" (7.7cm) plus the design match for all other sheets.

An actual and economy design match has been listed to provide options for producing the best appearance. The economy match does not necessarily repeat exactly but it generally matches very well and it is great for fill pieces and less conspicuous areas, while an actual match may be more appropriate for a highly conspicuous area.

Seaming Procedure

All seams must be cut using the overlap and double cut method. The straightedge and butt and recess scribe method will not produce an acceptable seam.

Install the first sheet leaving 12" (30.8cm) unadhered along the entire length of the seam (fully adhered floors). Position the second sheet in the room, overlap the selvage edges and carefully match the design. Adhere the second sheet leaving 12" (30.8cm) unadhered at the seam for a total dry zone of 24" (61.5cm).

Place a 3" (7.7cm) wide strip of scrap flooring under the entire length of the seam.

Cut the seam in the center of the embossed line when seaming designs with grout lines that are wider than 5/32" (4mm).

Cut the seam up on the shoulder of the grout line in the land area when seaming designs with narrower grout lines.

Cut the seam with a sharp utility knife and steel straightedge. Hold the knife at a 90° angle from the floor and apply sufficient pressure to cut through both sheets in a single pass. Use caution to avoid cutting into the subfloor surface.

Adhering the Seam

Fully Adhered Floors

Turn the seam edges back and apply AS-01 Adhesive over the entire dry zone. Adhesive can be applied with a 1/16" x 1/32" x 1/32" (1.6mm x .8mm x .8mm) notched trowel over porous surfaces in a wet set application or with a paint roller in a tacky dry application over all approved substrates. Remember to allow the adhesive to dry to a tack when using a paint roller. ***Note: Flooring should be laid into the adhesive as quickly as possible after adhesive dries to a tack. Use a fan to accelerate drying if working in a cool or damp environment.***

Lay the floor into the adhesive using extreme care to prevent scraping or squeezing adhesive into the seam cut. If this should occur, lift the edges of the sheet and clean any adhesive from the edge with a clean damp cloth and reposition the sheets.

Roll the seam area with a 100-pound (45kg), three-section roller and level the seam edges with a steel hand roller.

Perimeter Fasten and Loose Lay Floors

Turn one seam edge back and mark the seam location on the subfloor with a pencil using care to avoid writing on the edge of the sheet.

Fastening the Seam with Adhesive

Use a 4" (10.2cm) wide, 1/4" (6.4mm) nap paint roller to apply a 6" (15.4cm) band of adhesive centered over the pencil line. Allow the adhesive to set up for 15 to 30 minutes or until tacky dry. ***Note: Flooring should be laid into the adhesive as quickly as possible after adhesive dries to a tack. Use a fan to accelerate drying if working in a cool or damp environment.***

Lay the seam edges into the adhesive lightly and check to make sure the seam is properly aligned with no gaps. Adjust if necessary. Roll the seam with a steel hand roller to level the edges and embed the backing into the adhesive.

Fastening the Seam with QuikStik Tape

Turn one edge of the seam back and mark the subfloor with a pencil where the seam will fall. Position a strip of QuikStik Tape centered over the pencil line and roll the tape with a steel hand roller. Remove the release liner and lay the seam edges lightly in to place to achieve a net seam. If necessary to adjust the seam, carefully lift the edge of the sheet using care to avoid damaging the backing and re-align the seam. Once the seam is in place, roll it with a steel hand roller.

Sealing Seams

Seal all seams before leaving the job using the recommended Seam Sealer. Remember to pre-treat all seams in Scotchgard and SDS finishes with the 3M® green pad included in the SU106 kit prior to applying seam sealer. Refer to the seam sealer label for detailed instructions. Keep traffic off seams for a minimum of 16 hours or until fully cured.

Completing the Job

- Install trim and transition moldings. Remember to follow special instructions for loose lay floors.
- A high quality silicone caulking must be used to seal the edge of the flooring at net fits, in wet areas, in front of tubs, showers, sinks and around drains.
- Return all furniture and appliances to the room. Always use strips of hard board to protect the floor when sliding or rolling appliances and furniture back into place.

Repair

Surface cuts and punctures are easily repaired by applying the recommended seam sealer to the damaged spot.

More extensive damage can be repaired by replacing the damaged area with a patch.

Obtain a matching piece of flooring material. Cut a section of the floor slightly larger than the damaged spot. Remove complete design units when possible.

Position the replacement piece directly over the damaged area and accurately match the design.

Secure the replacement piece with tape on all sides.

Use a sharp utility knife and steel straightedge to cut the seams on all sides of the repair piece.

Cut the seam in the center of a grout line or in a dark color of the floor if possible.

Hold the utility knife at a 90° angle to the floor and cut through both pieces in a single pass.

Remove the damaged area.

Install the repair piece using AS-01 Adhesive or QuikStik Tape to secure the repair piece.

Seal the seams with the recommended seam sealer following label instructions.

2015

DuraCeramic® *Featuring* SCOTCHGARD PROTECTOR 3M

Installation and Technical Guide

Congoleum
www.congoleum.com

SAFETY PRECAUTIONS

Safety for yourself and others on the job site is your responsibility as a professional flooring installer. Read and observe the following safety precautions.

- Read and follow the safety precautions and warnings printed on the label of the installation accessory products being used. Obtain the appropriate MATERIAL SAFETY DATA SHEETS (MSDS) for information that may be required for products which may contain hazardous materials. MSDS are available for the adhesive, joint sealer, and grout. You may obtain an MSDS for these products by calling or writing to your Congoleum distributor or contacting Congoleum at the address or phone number listed on this page.

- Wood and concrete: If working on wood or concrete subfloors, use proper safety precautions when sanding or grinding. Avoid creating dust. Concrete and cementitious patching compounds contain crystalline silica, which is a known carcinogen. Wood dust is classified as a nasal carcinogen in humans. Airborne wood dust may also be an explosive hazard.

- Resilient Flooring

WARNING

Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphaltic "cutback" adhesive, or other adhesive. These products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of material. Whenever possible, existing flooring should be left in place and the new floor installed over the top. If you must remove old flooring material, contact your retailer or Congoleum Corporation, Installation Department, P.O. Box 3127, Mercerville, NJ 08619, for a copy of recommended work practices for the removal of resilient floor coverings. These practices should be followed.

NOTICE

Various federal, state and local government agencies have regulations covering the removal of in-place asbestos containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable regulations. Regulations outside the United States may vary. Copies of the Resilient Floor Covering Institute (RFCI) Recommended Work Practices for the Removal of Resilient Floor Coverings are available from:

Resilient Floor Covering Institute
115 Broad Street
Suite 201
La Grange, GA 30240

Please note that the RFCI Recommended Work Practices are subject to change as new practices are incorporated. It is your responsibility to determine that the recommended work practices you use are those in effect.

CAUTION: PAINTS CONTAINING LEAD

Certain paints may contain lead. Common renovation activities like sanding, cutting, removal of trim and demolition can create hazardous lead dust and chips which can be harmful. Beginning April 22, 2010 contractors performing renovation projects, including preparation of

an area to receive floor covering, that disturb lead –based paints in pre- 1978 homes, child care facilities and schools must be certified and must follow specific work practices to prevent lead contamination. Detailed information on training and certification is available through the EPA at the following web site www.epa.gov/lead/pubs/toolkits.htm.

MOLD AND MILDEW ISSUES

Prior to removing an existing floor following the RFCI Recommended Work Practices for Removal of Resilient Floor Coverings (unless state or local law requires other measures), if there are visible indications of mold or mildew or the presence of a strong musty odor in the area where resilient flooring is to be removed or installed, the source of the problem should be identified and corrected before proceeding with the flooring work. In virtually all situations, if there is a mold issue, there is or has been an excessive moisture issue. Visible signs of mold or mildew (such as discoloration) can indicate the presence of mold or mildew on the subfloor, on the underlayment, on the back of the flooring, and sometimes even on the floor surface. If mold or mildew is discovered during the removal or installation of resilient flooring, all flooring work should stop until the mold or mildew problem (and any related moisture problem) has been addressed.

In areas where flooding has occurred, it is recommended that damaged flooring be removed following the RFCI Recommended Work Practices for Removal of Resilient Floor Coverings (unless state or local law requires other measures). Any underlayment and subfloor should be allowed to thoroughly dry and, if necessary, cleaned, disinfected, and otherwise remediated consistent with the U.S. Environmental Protection Agency (EPA) guidelines referenced below. Any structural damage or signs of mold or mildew must be corrected before reinstalling resilient flooring. This may include, for example, replacement of the underlayment and/or subfloor.

For water damage caused by leaking fixtures, the source of the moisture leak must be located and corrected. Any structural damage must be repaired and any signs of mold or residual moisture must be addressed before replacing the resilient flooring in the affected area.

To deal with mold and mildew issues, you should refer to the EPA guidelines that address mold and mildew. Depending on the mold and mildew condition present, those remediation options range from clean up measures using gloves and biocide to hiring a professional mold and mildew remediation contractor to address the condition. Remediation measures may require structural repairs such as replacing the underlayment and/or subfloor contaminated with mold and mildew as a result of prolonged exposure to moisture.

The EPA mold guidelines are contained in two publications "A Brief Guide To Mold, Moisture and Your Home" (EPA 402-K-02-003) and "Mold Remediation in Schools and Commercial Buildings" (EPA 402-K-01-001). Appendix B of the "Mold Remediation in Schools and Commercial Buildings" publication describes potential health effects from exposure to mold, such as allergic and asthma reactions and irritation to eyes, skin, nose and throat. These publications can be located on EPA's website at www.epa.gov/iaq/molds/

- Keep work areas free of obstructions, such as tools and scrap or loose tiles, and dispose of scrap materials promptly and properly to eliminate a slip or trip hazard.

- Always use the correct lifting practices.

- Use heavy-duty extension cords and keep them in good repair.

- If using minerals spirits as suggested in this guide, CAUTION: Minerals spirits is a flammable material. Read and follow cautionary instructions on the labels of these products.

- Wear protective equipment when appropriate such as safety glasses, respirators, NIOSH-designated dust masks, kneepads, gloves, etc.

DuraCeramic, DuraCeramic Dimensions and Ovations

DuraCeramic, DuraCeramic Dimensions and Ovations are constructed with a limestone composite base that is fortified with a polymeric resin. It provides toughness and flexibility to resist breaking from normal subfloor deflection, expansion and contraction. This feature permits fast, easy installation using a pressure sensitive adhesive over a wide variety of subfloor surfaces without extensive preparation.

OVERVIEW

Use Congoleum DS100 DuraSet Adhesive, for all approved floor applications. Set tiles into tacky dry adhesive. Mortar, mastic or other adhesives are not recommended. Depending on the desired appearance, tiles can be installed with or without grout.

- **Grouted floor tiles** are laid with a 1/8" to 1/4" space at the joints depending on the desired grout line width. Congoleum DuraCeramic Premixed Grout can be applied immediately after tile is installed. Do not use cement epoxy or other premix grouts.

- **Ungrouted floor tiles** are laid with no space at the joints. The joints on an ungrouted DuraCeramic tile floor should be sealed with Congoleum DS200 DuraCeramic Joint Sealer to lock out surface water and aid cleaning. Sealing is highly recommended for all ungrouted DuraCeramic and DuraCeramic Dimensions floors.

INSTALLATION ACCESSORY MATERIALS

- DS100 DuraSet Adhesive – For all approved floor applications.
- DuraCeramic Premixed Grout – For joints on grouted floor tiles.
- DS200 DuraCeramic Joint Sealer – For joints on ungrouted DuraCeramic and DuraCeramic Dimensions floor tiles only.
- DuraCeramic Installation Accessory Kit – For grouted applications.
- Congoleum UnderFlor – Floating Underlayment System.

RECOMMENDED USE

DuraCeramic and DuraCeramic Dimensions are recommended for residential and light commercial use in dry, interior, heated areas. Ovations is only recommended for residential use in dry, interior, heated areas.

RESIDENTIAL

Recommended for use in all areas of the home except countertops, ceilings and wet areas like shower walls and shower floors.

LIGHT COMMERCIAL

Recommended for areas receiving light commercial foot traffic.

DuraCeramic and DuraCeramic Dimensions are not recommended for installation in exterior or unheated areas, wet areas, like shower walls or shower floors, countertops, ceilings, in commercial kitchens or food processing areas or on ramps. For information on other specific applications, contact the Congoleum Installation and Technical Office at (609) 584-3888.

GENERAL INFORMATION

- Always store and transport cartons on a flat surface stacked no more than 10 cartons high. Handle tiles and cartons with care. Tiles can be damaged if dropped.

- Condition the room(s) and all flooring and setting materials at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during, and 48 hours after installation. Thereafter, maintain a room temperature between 55°F (13°C) and 100°F (38°C).

- When installing flooring from two or more cartons, check the code on the side of the cartons to ensure that the pattern and shade numbers are the same. Mix tiles from several different cartons to achieve the best appearance.

- For best visual results: For DuraCeramic the directional arrows printed on the back of the tile should be installed following the illustration in (Fig. 1), with tiles turned randomly, i.e. north, south, east and west. For Ovations, install with directional arrows pointing in the same direction as shown in (Fig. 2). For DuraCeramic Dimensions, install all tiles with arrows pointing in the opposite direction following the illustration in (Fig. 3).
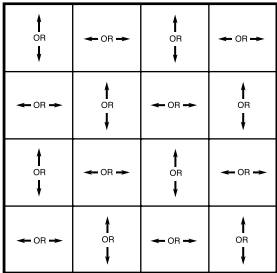
Fig. 1 - Turn tiles as shown.
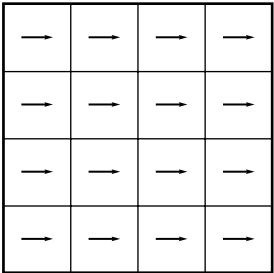
Fig. 2 - Arrows in the same direction.
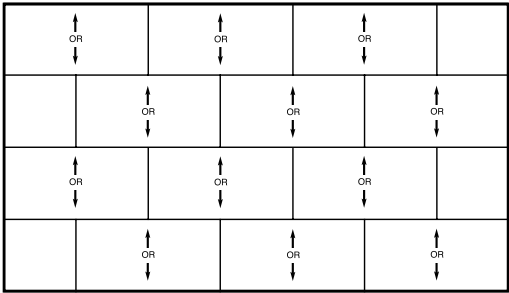
Fig. 3 - Install with arrows pointing in the opposite direction.

Installation Accessories Information

	DS100 DuraSet Adhesive	DS200 DuraCeramic Joint Sealer	DuraCeramic Premixed Grout
Order Code	DS100	DS200	Use specific color code
Description	Solvent free, acrylic, pressure-sensitive adhesive	Water-based, flexible acrylic sealer	Premixed sanded, acrylic grout
Use	Installing tile over all approved floor surfaces	For sealing joints in ungrouted DuraCeramic and DuraCeramic Dimensions floors only.	For use with DuraCeramic, DuraCeramic Dimensions and Ovations in grouting joints 1/8" to 1/4" wide. Can also be used for grouting most ceramic, quarry and porcelain floor tile.
Limitations	Not recommended for solid vinyl tile, rubber tile, or resilient sheet products.	Not recommended for walls, or vertical surfaces, ceramic, porcelain, natural stone, or Ovations.	Not recommended for nonvitreous tiles or natural stone, exterior use, shower floors or underwater use.
Coverage	200 to 250 sq. ft. per gallon	320 sq. ft. per 8 oz. bottle	

Joint Width	Approximate Coverage	
	Sq. Ft./Qt.	Sq. Ft./Gal.
1/8" (3.2mm)	80 (7.4m²)	325 (31m²)
3/16" (4.8mm)	70 (6.5m²)	275 (26m²)
1/4" (6.4mm)	55 (5m²)	225 (21m²)

	DS100 DuraSet Adhesive	DS200 DuraCeramic Joint Sealer	DuraCeramic Premixed Grout
Applicator	1/16" wide, 1/32" deep, 1/32" apart , trowel blade adapter included in 1 and 4 gallon containers only.	Applicator nozzle included	Hard rubber float or green epoxy float. Cleanup with firm sponge and 3M® white pad.
Working Time	12 hours. Dry to tack - 45 to 60 min. under normal conditions.	N/A	10 minutes - for best results apply grout in a 20 sq. ft. area on floors and clean up immediately.
Set Up Time	N/A	Tack free -1 hour Set up - 8 hours	16 to 24 hours
Clean Up	Wet - Soap and water Dry - Clean cloth dampened with mineral spirits.*	Wet - Water Dry - Mineral spirits (Caution: Mineral spirits is flammable)	Wet - Water Dry - Household ammonia cleaner. Do not use grout haze removers.
Color	Pale blue, turns clear when tacky dry	White, turns clear when dry	Popular versatile colors available
Tracers	Dark Red	N/A	N/A
Unit Size	1 quart; 1 gallon; 4 gallons	8 oz. bottle	1 quart; 1 gallon
Shelf Life	1 year if unopened	1 year if unopened	2 years, if unopened
Freeze/ Thaw Stability	Yes	Yes	Yes
Flammable	No	No	No
Cautions	Potential skin and eye irritant	Potential skin and eye irritant	Potential skin, eye and respiratory irritant

DS100 and DS200 - **WARNING:** Potential eye and skin irritant. DuraCeramic Premixed Grout - **WARNING:** Potential eye, skin and respiratory irritant.
* Mineral spirits - Caution: Flammable material; read and follow cautionary statements on label.

Product Information

Specifications and Recommended Usage

Product Information	DuraCeramic	DuraCeramic Dimensions	Ovations
Size (nominal)	15 5/8" x 15 5/8" (39.7 cm x 39.7 cm)	12" x 24" (30.48 cm x 60.96 cm)	14" x 14" (35.6 cm x 35.6 cm)
Gauge (nominal)	.160" (4.1mm)	.160" (4.1mm)	.140" (3.6 mm)
Packaging	10 pieces/carton; 17 sq. ft.; 1.58 m²	10 pieces/carton; 20 sq. ft.; 1.86 m²	15 pieces/carton; 20.4 sq. ft.; 1.90 m²
Shipping Weight	30.5 lbs./carton	36 lbs./carton	32.7 lbs./carton
NBS Smoke Density	Passes	Passes	Passes
Critical Radiant Flux (ASTM E648 >0.45w/cm²)	Passes	Passes	Passes
Motor Vehicle FMVSS 302	Passes	Passes	N/A
Static Load Limit	250 psi	250 psi	250 psi
Slip Resistance	Meets ADA Recommendations	Meets ADA Recommendations	Meets ADA Recommendations
PEI Rating	3-4	3-4	N/A
Installation Method	Grouted or Traditional Edge-to-Edge Fit (Ungrouted)	Grouted or Traditional Edge-to-Edge Fit (Ungrouted)	Grouted or Traditional Edge-to-Edge Fit (Ungrouted)
Subfloor Application	On, above or below grade level		
Adhesive	Congoleum DS100 DuraSet Adhesive		
Grout	DuraCeramic Premix Grout	DuraCeramic Premix Grout	DuraCeramic Premix Grout
Joint Sealer (Recommended for ungrouted floors)	DS200 Joint Sealer	DS200 Joint Sealer	Not recommended
Suggested Usage	Residential/Light Commercial		Residential
Warranty	Residential - Lifetime Limited /Light Commercial - Five-Year Limited Commercial		Residential 20 Years

Flooring Installations

Special Installation Tools
- Notched trowel (1/16" wide, 1/32" deep, 1/32" apart)
- 100-pound, three-section, steel roller
- Grout tools and spacers for grouted applications
- 18" tile cutter - optional

Subfloor Recommendations
DuraCeramic, DuraCeramic Dimensions and Ovations may be installed directly over dry concrete on all grade levels, suspended wood, qualifying old resilient floors, ceramic tile and terrazzo. DuraCeramic, DuraCeramic Dimensions and Ovations can also be installed over Congoleum UnderFlor, an optional floating underlayment system by Congoleum.

The surface must be clean, dry and free of dust, dirt, grease or other extraneous material that will inhibit bonding. Thoroughly vacuum floor to remove dust.

- Deviations in the flatness of the subfloor cannot exceed 1/16" in 1' or 3/16" in 10'. Check the surface with a straightedge and fill low areas with a portland cement-based latex patching compound. Gypsum-based patching compounds are not recommended.

- The use of a high-quality latex primer that is specifically designed to improve adhesion may be used over wood, porous concrete and patching compounds prior to adhesive application. The primer will help seal the surface and tie down dust that can interfere with the adhesive bond. Do not use paint primers.

Concrete Floors
Concrete must be clean, dry, and free of paint, curing, hardening and parting compounds, sealers, and old adhesive residue. Moisture vapor emissions should not exceed, 5 lbs./1,000 sq. ft./24 hours when tested with the calcium chloride kit or 80% RH when tested using ASTM F2170 with a pH range between 5 - 9. Do not install DuraCeramic, DuraCeramic Dimensions or Ovations over expansion joints; instead, cut the tile neatly to each side of the joint and fill it with an elastomeric polyurethane joint filler or cover with an expansion plate cover.

Wood Floors
Wood subfloors must be structurally sound and free of movement with at least 18" of well-ventilated air space below. Single layer floors and stripwood floors must be covered with a 1/4" or heavier underlayment to achieve a total subfloor thickness of 1". Position underlayment joints so they offset the joints in the tile by at least 3". Sand underlayment joints level and fill gaps wider than 1/32" with the recommended patching compound.

Subfloor Recommendations

Subfloor Construction/ Materials	Comments	Notes
Congoleum UnderFlor	• UnderFlor is an underlayment system for floating installations of DuraCeramic, DuraCeramic Dimensions and Ovations over a variety of substrates in lieu of direct bonding. See detailed instructions on page 7.	The subfloor system for floating surface must be smooth, solid and dry.
Wood	• Double layer construction over joist or trusses on 16" centers with at least 18" of well-ventilated air space. • Install 1/4" or heavier underlayment over strip wood, single layer wood floors and APA-rated Sturd-I-Floor Systems.	Subfloor must be solid and free of movement.
Underlayment	• APA underlayment grade plywood with fully sanded face. • Hardwood and veneer underlayment panels. • Lauan plywood, particleboard, oriented strand board and chipboard create a higher risk for installation and adhesive failure and are not recommended unless warranted by the panel manufacturer or supplier. • Not recommended over cement backer-boards, glass mesh mortar units or acoustical cork.	Install according to panel manufacturers' written instructions.
Concrete	• On, above and below grade level. • Radiant-heated floors not to exceed 85°F (29°C).	Moisture vapor emissions not to exceed 5 lbs. or 80% RH.
Light Weight Concrete (Residential Application only)	• Minimum 100-pound dry density • Installation over gypsum-based acoustical toppings is not recommended unless Congoleum UnderFlor is used.	Confirm adequate adhesion to substrate.
Resilient Floor (See WARNING on inside cover)	• Smooth, non-cushioned sheet flooring and vinyl composition tile. • Embossed non-cushioned and thin cushioned vinyl flooring can be prepared with embossing leveler in residential applications. • Do not install over soft, heavy cushioned floors, flooring with a cushioned backing, self-adhering tile or tile installed below grade level.	Must be single layer, fully adhered and well bonded. Remove wax or polish.
Ceramic and Stone	• Ceramic, marble and granite.	Fill grout joints and level floor.
Carpet/ Laminate	• Not recommended.	Remove
Patching Compound	• Portland cement-based compound such as Ardex Feather Finish, Mapei Plani-Patch or equal. • Gypsum-based patching compounds are not recommended.	Refer to manufacturers' instructions for use and applications.

Congoleum UnderFlor

UnderFlor is an all-in-one underlayment system that provides an economical solution for installing DuraCeramic, DuraCeramic Dimensions and Ovations as a floating flooring system over a variety of subfloor surfaces. Now, one underlayment covers it all; wood, concrete, most old hard surface flooring, gypsum topping, even old adhesive residue and painted surfaces. Congoleum UnderFlor is constructed in 6' wide rolls, and since it is a floating underlayment, it requires no fasteners or special tools so it's quick and easy to install.

Roll Sizes
UF120 – 6' x 180' (120 sq. yds. or 1080 sq. ft.)
UFB07 – 6' x 16.7' (11.11 sq. yds. or 100 sq. ft.)

Recommended Use
• Residential applications on all grade levels
• Interior use in dry, heated areas
• Do not install over ramps, in showers or other wet areas

General Information
• Always roll sheets of Congoleum UnderFlor tightly around a tube with the vinyl side out for storing and transporting. Avoid distorting Congoleum UnderFlor.

• Condition the room and all flooring materials at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during and 48 hours after installation.

• All UnderFlor underlayment and finished flooring must be installed with a 1/4" space around the perimeter of the room to allow for expansion and contraction of the flooring system and subfloor. Undercut door casing and slide finished flooring under for a finished appearance.

• Use DS100 Adhesive only for installing Congoleum DuraCeramic, DuraCeramic Dimensions and Ovations over Congoleum UnderFlor. Hard setting adhesives should not be used with Congoleum UnderFlor.

Congoleum UnderFlor Installation
Install Congoleum UnderFlor with the vinyl side down just prior to installation of finished flooring. Determine the appropriate seam location and direction of the underlayment (depending on the finished flooring selection).

Important
For tile installation, position UnderFlor with seams at least 4" away from the joints in the finished floor tile. (Fig. 4).
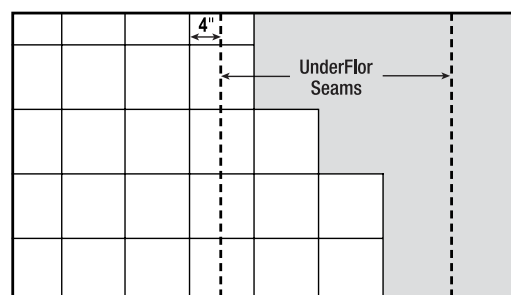
Fig. 4 – Position seams at least 4" away from tile joints.
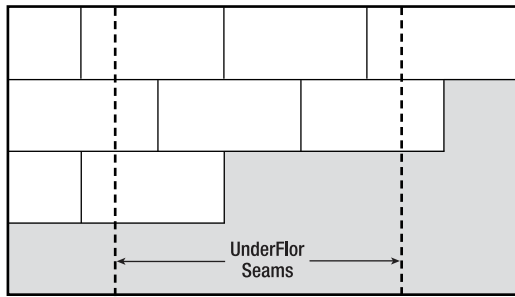
Fig. 5 – Install UnderFlor with seams perpendicular to the long dimension of the DuraCeramic Dimensions flooring.

For **DuraCeramic Dimensions** always install UnderFlor with seams running perpendicular to the long dimension of the tile flooring (Fig. 5). Install tiles with staggered end joints positioned at least 4" away from the seams in the Congoleum UnderFlor.

Unroll the first sheet and trim it to fit allowing a 1/4" space between the edge of the sheet and the wall.

Unroll the second sheet and position it with the seam edge butted lightly up to the first sheet. If necessary, to adjust the seam location to ensure proper placement, overlap the sheets and double-cut a new seam in the desired location. Use a straightedge and utility knife to cut the seam.

Tape the sheets together with 2" wide clear packaging tape or other thin single face plastic tape available through office supply stores and most home centers. Apply the tape, centered directly over the top of the seam edges. Roll the tape with a steel seam roller.

Suitable Packaging Tapes Include:
- Scotch® 3850 Packing Tape
- Duck™ Tape Standard Packaging Tape
- Shurtape® HP Series

Do not use masking tape, fiber reinforced tape, duct tape or other thick tapes that might telegraph through the finished flooring.

Install finished flooring immediately after installing Congoleum UnderFlor.

Installing DuraCeramic, DuraCeramic Dimensions and Ovations over Congoleum UnderFlor

Follow installation instructions for the finished flooring being installed. Install finished flooring with Congoleum DS100 DuraSet Adhesive using the recommended trowel notch size. Do not apply excess adhesive. Allow adhesive to dry completely to a tack prior to flooring installation. Slight growth (buckles) in the UnderFlor may occur immediately after adhesive application. This is normal and will not affect the finished flooring installation. Install finished flooring allowing a 1/8" to 1/4" space around the entire perimeter. If necessary to adjust or remove a tile, use a heat gun to warm it up first. Roll finished flooring on completion of the installation.

All finish trim and transition moldings must be installed so they do not bind or restrict the finished flooring from moving when expansion and contraction occurs during seasonal changes. Fasten the trim to the wall not to the subfloor.

Do not drive fasteners into the floor or underlayment.

Seal all areas that may be exposed to surface spills, i.e. tubs, toilet and showers with a silicone caulking.

Congoleum UnderFlor Substrate Recommendations

UnderFlor can be installed over the following surfaces:

Subfloor Construction/ Materials	Comments	Notes
Wood Structure	• Double layer construction over joist or trusses on 16" centers. • Single layer floors constructed with APA Rated Sturd-I-Floor T&G Panels, minimum 23/32" over joists or trusses on 19.2" centers.	Subfloor must be smooth solid and free of movement with at least 18" of well ventilated air space below.
Underlayment	• APA underlayment grade plywood. • Oriented Strand Board (OSB) • NPA rated Particleboard	Weather damaged or rough surface materials must be sanded smooth. Gaps wider than 1/8" should be filled level.
Concrete	• On, above and below grade level. • Radiant-heated floors not to exceed 85°F (29°C).	Moisture vapor emissions not to exceed 5 lbs. or 80% RH. Fill depressions and cracks wider than 1/8".
Gypsum Topping and Light Weight Concrete	• Minimum 100-pound dry density • Minimum 3,000 psi compression rating is required.	Fill depressions and cracks wider than 1/8".
Resilient Floor	• Smooth, or textured sheet flooring • Vinyl composition tile • Do not install over soft, heavy cushioned floors, flooring with a cushioned backing or tile installed below grade below.	Must be single layer, fully adhered and well bonded.
Ceramic and Stone	• Ceramic, marble and granite.	Fill grout joints and level floor.
Old Adhesive and Residue and Paint	• Adhesive Residue - Scrape to remove heavy spots and cover with a 4 mil sheet of poly film. • Paint - Remove loose paint.	Follow recommended work practices for adhesive and paint removal.

DURACERAMIC INSTALLATION

Tile Layout

- Layout is slightly different for grouted and ungrouted floors. The grout line width must be added to the tile dimension for layout on grouted floors. Additional chalk lines are also used to keep the joints straight. DuraCeramic nominal tile size is 15 5/8" x 15 5/8". DuraCeramic Dimensions nominal tile size is 12" x 24". Ovations nominal tile size is 14" x 14".

- It is important to avoid positioning the tile joints directly over underlayment joints or seams in UnderFlor or existing flooring. If this should occur, reposition chalk lines to offset joints by at least 3" or half of the tile dimension.

	DuraCeramic (15 5/8" x 15 5/8")	DuraCeramic Dimensions (12" x 24")	Ovations (14" x 14")
Square or Straight	Yes	Yes	Yes
Diagonal	Yes	No	Yes
½ Drop	Yes	Yes	Yes
1/3 Drop	No	Yes	No
Paver	No	Ungrouted only	No
Herringbone	No	Ungrouted only	No

Basic Square Layouts

- Place a mark in the center of the floor at each end of the room. (AB) Then snap a chalk line between the marks.

- Find the center of the line and snap a second chalk line at a right angle (CD); use the 3', 4', 5' method to form a right angle (Fig. 6).
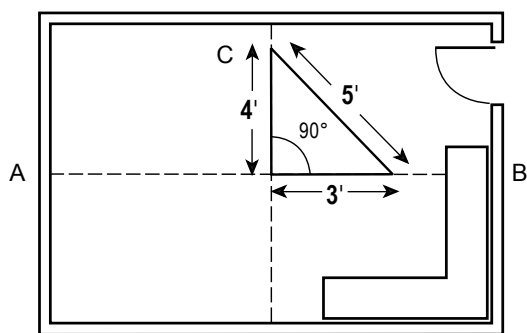
Fig. 6 - Square layout.

- Make a dry layout in one quadrant along the center and perpendicular chalk lines. Remember to allow the desired grout line space between the tiles. A story pole (board marked with tile dimensions, including grout line width) can also be used in place of a dry layout.

- Measure the distance between the last whole tile and the wall. If the distance is less than half a tile, snap a new chalk line one-half the dimension of a full tile away from the original chalk line (Fig. 7). This will provide a balanced layout with larger cut tile at the border.
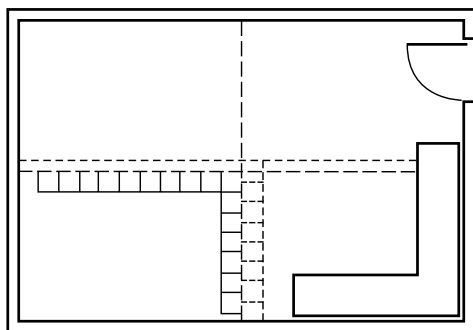
Fig. 7 - Adjust layout at center lines for larger border tiles.

- When installing DuraCeramic Dimensions in a 1/2 drop layout or a 1/3 drop layout it will be necessary to snap additional chalklines for starting locations. First complete a basic square layout with center and perpendicular lines. Normally the tiles are laid with the long dimension parallel with the long dimension of the room.

1/2 Drop Layout

- Snap a second perpendicular chalkline 12" away from the first perpendicular line (Fig. 8). Complete a dry layout in the first 2 rows starting from the perpendicular chalklines. If the border tile in either row is less than 6", adjust the perpendicular lines 6" in either direction.
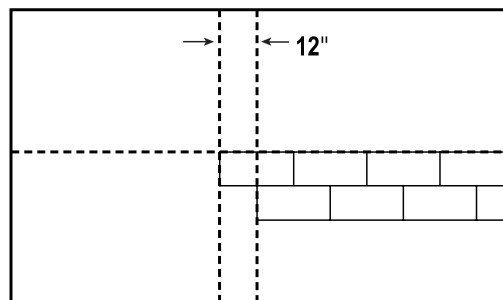
Figure 8 - 1/2 Drop Layout.

1/3 Drop Layout

- Snap two additional chalklines, one 8" and the other 16" away from the center perpendicular line (Fig. 9). Complete a dry layout in the first 3 rows starting from the center perpendicular chalkline. If the border tile in any of the 3 rows is less than 4", adjust all three perpendicular lines 4" in either direction.
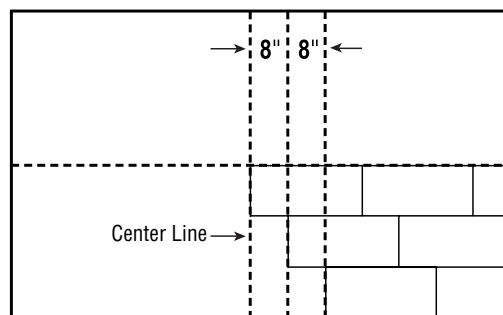
Figure 9 - 1/3 Drop Layout.

Note: Chalk lines can be easily removed or difficult to see after applying adhesive over some subfloor surfaces like old flooring and concrete. To avoid loosing the lines, mark the subfloor with a pencil and a straightedge, directly over the chalk lines.

Adhesive Application

Congoleum DS100 DuraSet Adhesive is a pressure-sensitive adhesive that must be allowed to dry completely to a tack before setting tiles.

- Apply the adhesive with the trowel blade adaptor included with the adhesive. The recommended trowel notch size is 1/16" wide, 1/32" deep, 1/32" apart.

- Spread the adhesive over one-half of the subfloor and a few inches beyond the center chalk line.

- Allow the adhesive to dry completely to a tack before installing the tile. Normal dry to tack time is about 45 to 60 minutes; longer in cool or humid conditions. The adhesive will turn from light blue to clear when tacky dry and will not transfer to the finger when firmly touched. Do not use fans to accelerate adhesive drying time. Fan drying can cause the top surface of the adhesive to dry prematurely, trapping residual moisture in and preventing the adhesive from fully curing.

- Tile must be installed within 12 hours after adhesive turns clear.

Setting Floor Tiles

- Carefully position the first tile into the adhesive at the intersection of the chalk lines (Fig. 10). The tile will bond instantly on contact so it must be positioned accurately without sliding it. Press the tile firmly into the adhesive. Follow the procedures below for grouted and ungrouted floors.
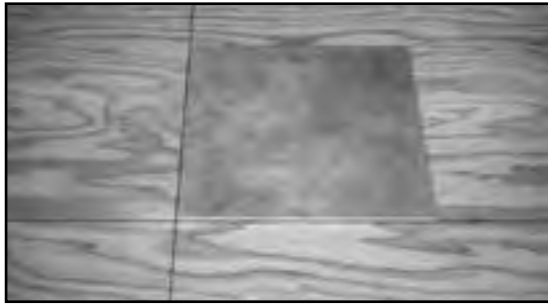
Fig. 10 - Positioning tiles.

Grouted Floors

- The desired grout line width should be determined prior to starting the flooring installation. It is important to understand that the finished grout line will be 1/16" to 3/32" wider than the space between the tiles, since the grout will extend onto part of the radius along the top edge of the tile (Fig. 11).
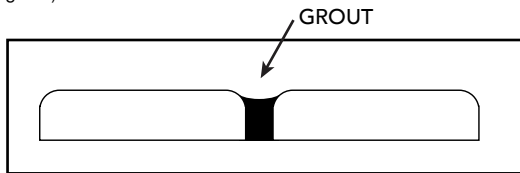
Fig. 11 - The finished grout line width is wider than the space between the tiles.

Spacer Size	1/8"	3/16"	1/4"
Actual Grout Line Width	3/16" to 7/32"	1/4" to 9/32"	5/16 to 11/32"

- Use spacers to maintain the joint width. Small pieces of DuraCeramic or 1/8" tile, cut into 1" squares, work very well as spacers, depending on the desired grout line width.

- If standard tile spacers are used, it will be necessary to remove one leg of the spacer (Fig. 12) otherwise it will interfere with positioning the tile. Stand spacers on end. Do not place tile spacers flat at the intersection of tiles; they can become bonded, making it difficult to remove them without damaging the edge of the tile.

Fig. 12 - Use spacers with one leg removed.

- Position two spacers along the edge of adjacent tiles, then lay the next tile gently against the spacers without forcing it into place (Fig. 13). Continue to set the tiles in straight rows to complete each section (Fig. 14). Follow the chalk lines to keep the joints straight and make minor adjustments if necessary. Remove the spacers immediately after setting each tile.

Fig. 13 - Position spacers before setting the tile.

Fig. 14 - Set tile in straight rows.

Ungrouted Floors

- When installing an ungrouted floor, continue setting the tiles in a stair-step pattern along the center and perpendicular lines (Fig. 15). Hold the tile in a low angle to the floor and position it tightly against the previously laid tile. Press it firmly into the adhesive. Continue working toward the walls to complete the first quadrant before starting the next. Check to make sure corners are lined up and adjust if necessary to prevent run-out.

Fig. 15 - Install ungrouted floors following a stair-step pattern.

Grouted and Ungrouted Floors

- Spread the adhesive on the second half of the floor so it can dry while you are cutting and fitting the last row of tiles along the wall. Complete the second half of the room following the same procedures.
- Roll the floor slowly, in both directions, with a 100-pound, three-section roller within one hour after setting the tiles (Fig. 16). Re-roll the entire floor immediately before grouting or applying joint sealer.

Fig. 16 - Roll the floor within one hour after setting tiles.

Cutting Tile to Fit

The last row of tiles will need to be cut to fit to walls and other vertical surfaces. (Remember to subtract the grout line dimension for grouted floors). Allow a 1/8" space for expansion between the edge of the tile and the wall.

Straight Cuts

- Measure the distance between the last whole tile and the wall. Subtract the dimensions for the grout and expansion space. Use this dimension to mark the tile.
- Place a square or straightedge over the marks and score the surface with a sharp utility knife. Break the tile over the score mark by flexing it downward.
- Install the tile with the cut edge against the wall.

Irregular Shapes

- Scribe the tile to fit.
- Warm the tile with a hot air heat gun. Score the surface with a sharp utility knife and break the tile over the score mark by flexing it downward or cut the tile with a coping saw.

CUSTOM FLOOR INSTALLATIONS

Diagonal Layouts (For DuraCeramic and Ovations ONLY, not for use with DuraCeramic Dimensions)

- Lay out the center and perpendicular lines as previously described for a square layout. Place a mark on each line an equal distance away from the center point (distance from center is arbitrary).
- Use a slightly larger arbitrary size and swing an arc on both sides of each line from points E, F, G, H (Fig. 17). Snap diagonal chalk lines at the point where the marks intersect. If done correctly, the chalk lines will intersect at the center point.
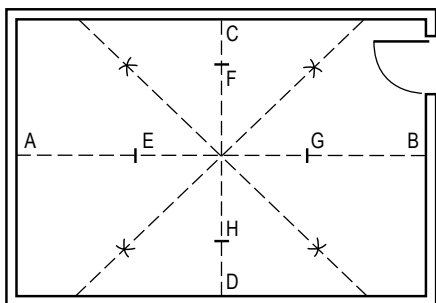
Fig. 17 - Diagonal Layout.

- Make a dry layout in one quadrant along the center and perpendicular chalk lines.
- Measure the distance between the last whole tile and the wall. If the distance in either row is less than one-forth of the diagonal dimension of the tile, adjust the starting point and snap a new chalk line 1/4 of the diagonal dimension of the tile away from the original chalk line (Fig. 18). This will provide a balanced layout with larger cut tile around the perimeter.
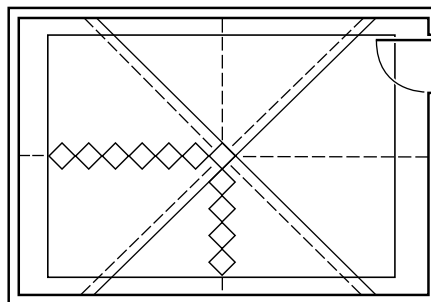

Fig. 18 - Adjusting chalk lines for a diagonal Layout.

Herringbone Layout for Ungrouted DuraCeramic Dimensions Only

- The Herringbone layout requires only a basic square layout with a center and perpendicular chalkline. Complete a dry layout starting at the intersection of the chalklines to determine the size of the cut border tile. If the border tile is less than 6" adjust the chalkline 6" in either direction.

Tip: Spread adhesive in 3 quadrants (starting quadrant and adjacent quadrants) when installing a herringbone layout (Fig. 19).
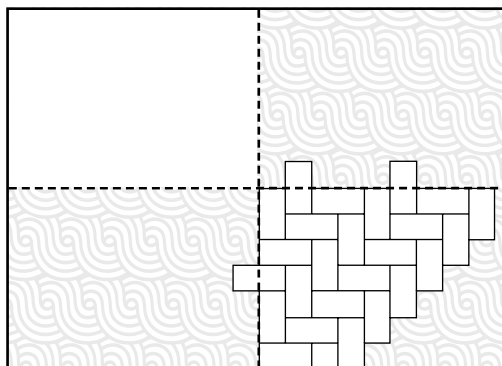
Fig. 19 - Adjust the chalkline 6" in either direction if necessary to achieve a larger border tile. After completing dry layout spread adhesive in 3 quadrants.

Installing Borders and Insets

- Borders can be created easily by using an accent color or different size tile on a square layout. Plan the layout to allow for a uniform border size using full size tile in the field if possible. When using a square border with a diagonal layout, it is necessary to prepare the cut edge of the diagonal tile where it meets the border.

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Finishing Cut Edges for Borders and Insets

- When installing tile with a diagonal layout and a square border, it will be necessary to prepare the cut edge of the diagonally cut tile. First cut the tile to the desired size. Then heat the cut edge and back of the tile with a heat gun to soften it. Place the tile on a flat surface and roll the edge with a steel hand roller to turn the edge downward, forming a slight radius (Fig. 20). Allow the tile to cool before installing it.

Fig. 20 - Roll the cut edge to form a slight radius.

GROUT AND JOINT SEALER APPLICATION

Grouting Floors

- DuraCeramic, DuraCeramic Dimensions and Ovations can be grouted immediately or within 24 hours after setting the tiles.
- Tiles must be grouted using DuraCeramic Premix Grout. This exclusive premixed acrylic grout is designed for high flexural strength and adhesion to the edge of the tile. This feature provides durability to resist cracking from thermal dimensional changes and normal subfloor deflection. Traditional cement grouts are not recommended and will not perform properly.

Grout Application

Tools and Equipment

- Hard, green, rubber epoxy float
- Firm, square-edge sponge
- 3M® white nylon scrubbing pad
- Spray bottle of water
- Water buckets
- Rubber gloves
- Safety glasses
  Soft grout floats and soft sponges are not recommended because they tend to pull the grout out of the joint, leaving it shallow.

Surface Preparation

- Re-roll the floor just before grouting and check to make sure all edges are tightly seated in the setting adhesive. The joints must be clean and dry. Remove any adhesive smears from the surface and edges of the tile with mineral spirits before grouting.

Application

- Always wear rubber gloves when working with grout.
- Start grouting floors at the far end of the room and work toward the entrance.
- Apply grout in small sections, up to 20 sq. ft. and cleanup immediately or before grout films over (approximately 5 minutes).

- Use the tip of a hard rubber float and fully pack the grout into the joints (Fig. 21). Hold the float in a low angle and press firmly with short strokes at a right angle to the joint.

Fig. 21 - Pack the grout into the joints.

- Extend the grout a few inches in to the next row of tile so water does not run into the unfinished joints during cleanup (Fig. 22).

Fig. 22 - Extend grout a few inches into the next row.

- Remove excess grout from the surface of the tile by holding the float at a 45° angle to the floor surface and moving diagonally across the joints.

Initial Cleanup

Initial cleanup should be done immediately after finishing each section. The faster the grout is removed from the tile, the easier it is to clean up. The DuraCeramic installation accessory kit contains the recommended pads and sponge to make clean-up easier.

- Apply a light mist of water with the spray bottle over the grouted tiles and allow it to remain on the surface for at least 30 seconds.
- Use a slightly wet 3M white nylon pad to loosen the grout residue. Apply light pressure while moving the pad in a circular motion (Fig. 23).

Fig. 23 - Use a 3M white, nylon pad to loosen grout residue.

- Use a firm square edge sponge to remove the excess water solution. Use light pressure and wipe diagonally across the joints (Fig. 24). Do not allow the water to flow into the ungrouted joints or accumulate in finished areas.

Fig. 24 - Wipe diagonally across the joint
to remove excess water.

- Then rinse the sponge in clean water and wipe diagonally again to shape joints evenly and remove any remaining grout residue. Change rinse water frequently. Clean tools with water while grout is wet. If allowed to dry, remove with an ammonia-based window cleaner.

Final Cleanup
- Allow grout to dry for 24 hours.
- Remove any remaining grout haze with an ammonia-based window cleaner or a dilute solution of 1/4 cup household ammonia to one gallon of warm water. Apply a small amount of the solution over a small section and allow it to remain for about 30 seconds. Use a clean sponge mop or a 3M nylon white pad to loosen the grout haze. Rinse with fresh water and buff with a soft, dry terry cloth towel. Do not use grout haze removers or solvents.

Keep all traffic off newly tiled floors for 24 hours.
Resume normal traffic after 48 hours.

Joint Sealer Application
DuraCeramic DS200 Joint Sealer is designed to keep surface water and dirt from penetrating ungrouted floor joints. Apply joint sealer to the tile joints only.

Surface Preparation
- Roll the floor with a 100 lb., three-section roller just before sealing the floor and check to make sure all edges are tightly seated in the setting adhesive. The joints must be clean and dry. Remove any adhesive smears from the surface and edges of the tile with mineral spirits before sealing. Vacuum the floor to remove dust and loose particles.

Application
- Shake the applicator bottle and allow air bubbles to dissipate before using.
- Remove the plastic cap and screw the applicator tip onto the bottle.
- Cut 1/16" off of the applicator tip to provide a small opening.
- Start in the far corner of the room and apply a uniform 1/16" bead of sealer in the tile joint. Apply the sealer to the first 2 or 3 rows, then come back immediately and seal the perpendicular (cross) joints in this area before the sealer develops a surface film (about 4 minutes). Repeat this process to seal the entire floor.
- The color of the sealer will change from white to clear when it dries.
- If the nozzle becomes clogged, use a straight pin to free the flow.
- Protect newly applied joint sealer from foot traffic and dust until it dries, (approximately 8 hours). Keep traffic to a minimum and do not wash the floor for the first 48 hours.
- Use water cleanup for wet sealer and mineral spirits for dry sealer. Caution: Mineral spirits is flammable. Read and follow label instructions.

IMMEDIATELY AFTER INSTALLATION
- Install or replace base moldings and return furniture to the room by rolling or sliding them over strips of hardboard.
- Use acrylic caulking at bathtubs, showers and other wet areas to prevent water from seeping under the floor.
- Wait 48 hours before damp mopping the floor and at least 5 days before wet mopping or washing. Adhesive smears can be removed with mineral spirits.

REPAIR
DuraCeramic, DuraCeramic Dimensions and Ovations can be repaired easily if it is necessary to replace a tile.

Grouted Floors
- Use a heat gun to warm the grout along one edge of the tile. The grout will soften when heated.
- Place a straight edge over the center of the grout line and cut the grout with a sharp utility knife (Fig. 25).

Fig. 25 - Cut along the center of the
grout line after heating it.

- Remove as much of the grout as possible using care to avoid cutting into the edge of the adjacent tile. Repeat this process on all four sides of the damaged tile.
- Next, heat the tile a few inches in from the corner. While the tile is warm, drive a putty knife or screwdriver into the heated area with a hammer (Fig. 26).

Fig. 26 - Drive a putty knife into the
heated area and pry upward.

- Then, pry upward to release the tile from the adhesive. Continue lifting the tile as you heat it until it is completely removed.
- To install the new tile, re-apply DS100 DuraSet Adhesive over the exposed subfloor using the flat side of a trowel; it is not necessary to remove the old adhesive.
- Allow the adhesive to dry completely to a tack and then reinstall the new tile using spacers to maintain the grout line width.
- Roll the tile with a 100-pound, three-section roller.
- Re-grout the tile with DuraCeramic Grout following label instructions. Allow grout to dry for 24 hours and remove any remaining grout haze.

Ungrouted Tile Floors

- Use a utility knife and carefully cut through the joint sealer using care to avoid cutting into the adjacent tiles.
- Follow the same procedure for Grouted Floors to remove the tile and re-adhere the replacement tile.
- Re-apply DuraCeramic DS200 Joint Sealer along all four sides of the tile to seal the joints.

Congoleum UnderFlor Repair Techniques

Repair techniques are very easy on Congoleum UnderFlor installations. Use these procedures for repairs for DuraCeramic, DuraCeramic Dimensions or Ovations installed over Congoleum UnderFlor.

Ungrouted Repair

- Carefully score the tile to be removed across the corner edge about 1 inch from the corner.
- Apply heat to the area.
- Using a putty knife and hammer, position the putty knife over the scored edge and tap it until the corner is released.
- Apply heat as you go and carefully begin to pry up the piece from the Congoleum UnderFlor using a putty knife. If you keep the tile heated, it should release without damaging the UnderFlor.
- When the piece has been removed, check the adhesive tack. If it is still tacky to the touch, simply position the new piece in place.
- If the adhesive is not tacky, reapply adhesive with the flat side of the trowel and let it tack up. Then set the replacement piece into place.
- Roll the replacement piece with a roller.

Grouted Repair

- Use a heat gun to warm the grout.
- Using a sharp utility knife, carefully score the joint, cutting through the grout. Make sure that you do not apply a lot of pressure because you do not want to cut into the Congoleum UnderFlor. Carefully score the tile to be removed across the corner edge about 1 inch from the corner.
- Apply heat to the area.
- Using a putty knife and hammer, position the putty knife over the scored edge and tap it until the corner is released.
- Apply heat as you go and carefully begin to pry up the piece from the Congoleum UnderFlor using a putty knife. If you keep the tile heated, it should release without damaging the UnderFlor.
- When the piece has been removed, check the adhesive tack. If it is still tacky to the touch, simply position the new piece in place.
- If the adhesive is not tacky, reapply adhesive with the flat side of the trowel and let it tack up. Then set the replacement piece into place.
- Roll the replacement piece with a roller.
- Re-grout the tile with DuraCeramic grout following label instructions. Allow grout to dry for 24 hours and remove any remaining grout haze.

Replacing the Congoleum UnderFlor

If the Congoleum UnderFlor is cut or damaged during the repair procedure and needs to be replaced, follow these procedures.

- Using the piece that was removed as a template, cut a fill piece of Congoleum UnderFlor.
- Slide pieces of thin, clear, sticky, one-sided packaging tape centered under the cut out edges.

- Tip: Here's a tip to make it easier to slide the tape under the edges. Cut the piece of tile that was removed to make it about 1 inch shorter. Cut the thin packaging tape to that dimension. Carefully fasten the tape along the edge of the product overlapping it about 1/4 inch. Turn the piece over so that the tape is now sticky side up and slide it under the cut out edge. Firmly press down on the edge and pull the replacement piece away to release the tape.
- Carefully lay in the new cut piece of UnderFlor pressing it firmly onto the tape.
- Apply DS100 adhesive to the Congoleum UnderFlor and allow it to tack up.
- Lay in the replacement flooring and roll it to set it in place.
- Roll the replacement piece with a roller to set it.
- Re-grout the tile or reapply DS200 joint sealer to finish the repair.

PREVENTIVE CARE

- Make sure furniture legs have large surface, nonstaining floor protectors. Replace small, narrow metal or dome-shaped glides with smooth, flat glides that are in flat contact with the floor. Glides should be equipped with self-adhesive felt pads to avoid scratching the surface of the floor. The pads should be checked periodically for grit and wear and replaced when necessary.
- Heavy furniture or appliances that are not moved often should be equipped with flat, nonstaining composition furniture casters or cups of appropriate size – available square from 1 1/2" to 2 5/8" and round from 1 3/8" to 1 5/8".
- Mobile appliances and furniture should be equipped with easily swiveling casters. They should be at least 2" in diameter with nonstaining hard rubber treads at least 3/4" wide. Do not use ball-shaped casters.
- Place mats at outside entrances to prevent dirt, grit and soil from being tracked onto your floor.

Caution: DuraCeramic, DuraCeramic Dimensions and Ovations, like other types of hard-surfaced floors, can become slippery when wet. Allow time for the floor to dry after washing. Immediately wipe up wet areas from spills or wet feet. Place mats at outside entrances to prevent water, snow or ice from being tracked onto your floor. Improper polishes or finishes can also cause slipperiness.

REGULAR CARE

- Sweep or vacuum regularly to remove grit and sand that can abrade, dull or scratch your new floor. Do not use a vacuum with a beater brush, because it may damage the floor's surface.
- Wipe up spills promptly with a damp cloth or mop.
- Wash the floor with Congoleum Bright 'N Easy No-Rinse Cleaner or other suitable floor cleaner.

CAUTION: Avoid one-step "mop and polish" products, dishwashing liquids and oil-based cleaners. These may leave a residue which can attract dirt and dull the floor's finish. Avoid cleaners that contain abrasives or solvents which may permanently damage the floor.

- Do not use silicone sealers or penetrating sealers on the tile surface. A copolymer or acrylic grout sealer compatible with acrylic grouts may be used on the grout. Do not use a penetrating silicone sealer on the grout.
- Do not buff the floor. Do not apply polish to DuraCeramic or DuraCeramic Dimensions, Floor Polish use is optional for Ovations.

NEW!

TIMELESS **Impact ROSEWOOD RW121** Roasted Maize. pg 24.

TIMELESS
LUXURY PLANK & TILE

by CONGOLEUM™

STRUCTURE AND IMPACT COMMERCIAL INSTALLATION INSTRUCTIONS

ADHESIVE SELECTION

Proper adhesive selection is determined by the type of service the floor will receive. Using the proper adhesive will help maintain tight joints and reduce the potential for indentation from heavy loads.

AD-32 Adhesive is a pressure sensitive adhesive that can be used over all approved porous and non-porous substrates. AD-32 is recommended for residential and light commercial applications where heavy rolling and static loads are not expected. The adhesive is applied and then allowed to dry to a tack before installing flooring.

AD-62 Commercial Adhesive is a wet-set adhesive that dries hard and must be used in commercial applications, where heavy static or rolling loads are present, where temperature fluctuations are likely to occur or when adjustability during installation is desired. AD-62 is recommended for use over porous substrates and select non-porous substrates. DO NOT use AD-62 over existing resilient tile or sheet flooring products.

*AD-62 Adhesive is recommended for large tiles because it allows for adjustability during installation. AD-32 may be used when job site conditions require the use of a pressure sensitive adhesive.

Specialty Adhesives - Use Mapei G21 or G15 on installations in hospital rooms or medical facilities where Hill-Rom beds are used or where frequent surface wetting will occur such as in grocery store produce areas.

RECOMMENDED SUBSTRATES FOR AD-62 ADHESIVE

• **Porous Substrates (Concrete, wood underlayment and patching and leveling compounds) -** Before installing flooring allow adhesive to dry/flash for 5 to 10 minutes. The flooring must be laid in to wet adhesive to achieve 100% transfer of the adhesive to the back of the flooring when rolled.

• **Non-porous substrates (Cement terrazzo and some steel trowel finished concrete) -** It will be necessary to allow the adhesive to dry/flash longer when covering over non-porous surfaces. Before installing flooring allow adhesive to dry/flash 20 to 40 minutes or until the valleys between the trowel ridges turn clear (the trowel ridges will be wet) to achieve approximately 100% transfer of the trowel pattern to the back of the flooring when rolled. (See chart below).

GENERAL INFORMATION

• Always store and transport cartons on a flat surface neatly stacked no more than 15 cartons high. Ideal storage temperatures range from 50ºF to 90ºF (10ºC to 32ºC).

• Acclimate the room(s) flooring and adhesive at a constant temperature between 65ºF and 85ºF (18ºC and 29ºC) for 48 hours before, during and 72 hours after installation. Thereafter the room temperature should not exceed 90ºF (32ºC) or fall below 55ºF (13ºC).

• Make sure the pattern is correct and the lot numbers are the same on each carton.

Adhesive	AD-32 Pressure Sensitive Adhesive	AD-62 Wet Set Adhesive	
Service Rating	Residential and Light Commercial	Commercial	
Substrate	All Approved Substrates	Approved Porous Substrates	Approved Non-porous Substrates
Trowel Notch	1/16" x 1/32" x 1/32" U-notch (16 x .08 x .08 cm)	1/16" x 1/16" x 1/16" Square-notch (16 x .16 x .16 cm)	1/32" x 1/16" x 1/32" U-notch (.08 x .16 x .08 cm)
Spread Rate	200 - 250 ft.²/gal. (18.6 - 23.2 m²)	125 -150 ft.²/ gal. (11.6 - 13.9 m²)	185 -245 ft.²/ gal. (17.2 - 22.8 m²)
Dry/ Flash Time	30 to 60 minutes	5 to 10 minutes	20 to 40 minutes
Working Time	6 hours	Up to 30 minutes	Up to 20 minutes

Note: AD-62 Adhesive flash time and working time may vary based on temperature, humidity, substrate porosity, trowel application and jobsite conditions.

SUBFLOORS AND PREPARATION

For detailed information on subfloors and preparation, please refer to supporting document "Suitable Substrates" at **www.congoleum.com.** Certain requirements may apply in order to prepare these substrates for resilient flooring. Substrates covered with existing flooring may also be acceptable for residential and light commercial applications.

Ensure that concrete subfloors are sufficiently dry by conducting moisture and pH tests. The subfloor, regardless of the type must be flat, smooth, clean, dry, structurally sound and free of paint, old adhesive residue, wax, grease, oil, solvent, curing and parting compounds and other substances that could interfere with adhesion or the performance of the flooring. Never use liquid adhesive remover or solvent cleaners for removing old adhesive residue or other substances on the subfloor. These substances must be mechanically removed. Conduct bond tests to confirm suitable adhesion to the substrate. The flatness of the subfloor is particularly important for keeping joints tight and in alignment when installing large format tiles. Deviations in the subfloor should not exceed 3/16" in 10' or 1/16" in 1'. Subfloor deflection should not exceed 1/360th of the span.

SUITABLE SUBSTRATES AND SURFACE MATERIALS

- Fully cured, dry concrete on all grade levels Moisture vapor emissions should not exceed 5 pounds (ASTM F1869) or 80% RH (ASTM F2170) with a pH range between 5 and 9.
- Approved suspended wood floors and underlayments.
- Cement-based self-levelling underlayments and patching compounds.
- Prepared ceramic tile, marble and cement terrazzo
- Aluminum, steel and stainless steel.
- Radiant-heated subfloors where the maximum surface temperature of the floor does not exceed 85ºF (29ºC) in any area.

The following existing floors may be suitable for residential and light commercial applications only.

- Existing qualifying resilient sheet flooring-single layer, fully adhered and well bonded.
- Existing vinyl composition tile (VCT) - single layer, well bonded over, on or above grade level only.

Note: Some previously manufactured vinyl floor covering and asphalt "cutback" adhesive contain asbestos. For preparation or removal of these products, refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for the Removal of Resilient Floor Covering". These work practices must be followed. For a copy of the recommended work practices, please contact: Resilient Floor Covering Institute (RFCI) 115 Broad Street, Suite 201, La Grange, GA 30204 - www.rfci.com.

Warning: Do not sand, dry sweep, dry scrape, drill, saw, beadblast or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphaltic "cutback" adhesive or other adhesive. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of the material. If you must remove old flooring material, contact the Resilient Floor Covering Institute to obtain a copy of the Recommended Work Practices for the Removal of Resilient Floor Covering.

JOB SITE CONDITIONS

- Resilient flooring installation should be scheduled after all other trades have completed their work.
- The HVAC systems must be in operation for at least 10 days prior to flooring installation and thereafter to maintain a constant temperature. Portable heaters may not provide adequate heat. Never use kerosene heaters.
- Proper acclimation of the room, subfloor, flooring material, adhesive and all installation accessory products is critical to the success of the adhesive and flooring performance. Installation over cold subfloors will delay adhesive flash time and dry time, effect the size of the floor and increase the potential for indentation and/or adhesive displacement. The subfloor temperature must be between 65ºF and 85ºF (18ºC and 29ºC) at the time of installation.
- Acclimate the room(s) flooring and adhesive at a constant temperature between 65ºF and 85ºF (18ºC and 29ºC) for 48 hours before, during and 72 hours after installation. Thereafter the room temperature should not exceed 90ºF (32ºC) or fall below 55ºF (13ºC).
- Unopen cartons of flooring should be neatly stacked in the room where they will be installed during the acclimation period. Open cartons just prior to installation.

SPECIAL INSTALLATION REQUIREMENTS

- All plank products should be installed with end joints randomly staggered at least 8" apart. Avoid using pieces less than 6" long at the end of the row.
- Planks and tiles can be combined on custom installations.
- 18" x 36" tiles can be installed in an ashlar layout with a 9", 12" or 18" drop pattern, depending on the desired appearance. A square layout with all 4 corners lined up is not recommended.
- 18" x 18" and 18" x 36" tiles have directional arrows printed on the back. Turn tiles randomly in alternating directions to achieve the best visual appearance.
- When installing flooring in a wet-set application with AD-62, the flooring must be rolled with a 100 pound three section roller immediately after completing each section and while adhesive is still wet and again 1 hour later.
- Proper adhesive selection and application will ensure good adhesion, tighter joints and reduce the potential for indentation from rolling and static loads.

INSTALLATION RECOMMENDATIONS

Layout

Layout will depend on the product size and adhesive system being used. Snap a chalk line down the center of the floor parallel with the long dimension of the room. Adjust the chalk line if necessary to avoid narrow pieces at the walls. When installing 18" x 18" or 18" x 36" tiles it will be necessary to snap additional chalk lines perpendicular (90°) to the center line. Also see special instructions for AD-62 wet-set adhesive applications.

When planning the layout make sure tile and plank joints fall at least 6" (15.2cm) away from joints in the underlayment and/or seams in existing flooring. Do not install over expansion joints.

Cutting

Flooring can be trimmed to fit using a sharp utility knife or tile cutter. When using a utility knife, score the surface of the tile or plank and flex it downward to break it at the score mark. Always place the cut edge against the wall.

FOR INSTALLATION WITH AD-32 PRESSURE SENSITIVE ADHESIVE

Apply AD-32 Adhesive over one-half of the subfloor up to the chalk line. Allow adhesive to dry completely to a tack, normally 30 to 60 minutes, longer in cool or humid conditions. Adhesive will turn from off white to clear when dry.

Carefully install the first row of tile or plank along the edge of the chalk line. When installing plank, start with a whole plank in the first row. Use 2/3 of a plank to start the second row and 1/3 of a plank for the third row. Thereafter install planks in a random layout offsetting end joints by at least 8". Avoid using small pieces less than 6". Complete each row including the cut piece at the end of the row. Always place cut ends against the wall. Complete the opposite side of the room and roll the entire floor in both directions with a 100 pound, three-section roller. Restrict to light traffic for the next 48 hours.

FOR INSTALLATION WITH AD-62 WET SET ADHESIVE

When working with wet set adhesive it will be necessary to start the installation at the wall to avoid walking on freshly installed flooring. Transfer the center chalk line to within 24" to 36" from the wall opposite the entrance of the room using a multiple of the plank or tile width. Snap additional chalk lines to divide the floor into sections for adhesive application.

Apply AD-62 Adhesive in the first section. Spread the adhesive evenly over the subfloor, keeping the trowel at a 45º angle to the surface. Apply only enough adhesive that can be covered with plank or tile within the 20 to 30 minute working time. Before setting tiles or planks, allow adhesive to flash off for 5 to 10 minutes over porous surfaces or 20 to 40 minutes over approved non-porous surfaces. Do not walk on or work on freshly laid flooring until the adhesive has set sufficiently to eliminate shifting.

If unavoidable use a kneeling board. Fitting flooring net to the walls will reduce the possibility of tiles shifting.

Carefully install the first row of tile or plank along the edge of the chalk line. *When installing plank, start with a whole plank in the first row. Use 2/3 of a plank to start the second row and 1/3 of a plank for the third row. Thereafter install planks in a random layout offsetting end joints by at least 8".* Complete each row including the cut piece at the end of the row. Always place cut ends against the wall. Clean any adhesive smears on the face of the flooring immediately with a clean wet cloth before it dries. Roll the floor with a 100 pound three section roller immediately after completing each section and while adhesive is still wet. Re-roll it again after 1 hour. Failure to roll the floor can result in poor adhesion and indentation of the finished floor.

FINISHING THE JOB

- Clean any adhesive smears on the face of the flooring immediately while wet with a clean cloth and dilute solution of neutral cleaner and water. Mineral spirits can be used to remove dried adhesive.
- Keep traffic off the newly installed floor for at least 24 hours after installation. Open to light traffic for the next 48 hours. Resume normal traffic after 72 hours.
- Protect the floor from rolling or static loads for at least 72 hours after installation to allow adhesive to set firm.
- Always use strips of hardwood or plywood when moving heavy objects such as furniture or equipment over the floor even when using carts or dollies with wheels.
- Allow adhesive to dry a minimum of 4 days before wetting or washing the new floor.

STRUCTURE, IMPACT, ENDURANCE RESIDENTIAL AND LIGHT COMMERCIAL INSTALLATION INSTRUCTIONS

These products are installed directly adhered to the subfloor surface. In residential applications only, Impact and Endurance can be installed over a Congoleum UnderFlor. Use Congoleum AD-32 Pressure Sensitive Adhesive for installations over all approved subfloor surfaces including Congoleum UnderFlor.

GENERAL INFORMATION

- Resilient flooring installation should be scheduled after all other trades have completed their work
- The HVAC systems must be in operation for at least 10 days prior to flooring installation and thereafter to maintain a constant temperature.
- It is important to maintain proper temperature at the time of installation in order to minimize thermal dimensional changes. The subfloor, all flooring material, and adhesive must be conditioned at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during and 72 hours after installation. Thereafter, maintain the room temperature between 55°F (13°C) and 90°F (32°C).
- Unopen cartons of flooring should be neatly stacked in the room where they will be installed during the acclimation period. Open cartons just prior to installation.
- When using flooring from two or more cartons, make sure pattern and run numbers found on the carton are the same.
- Mix and install flooring from several different cartons to achieve a random appearance.

SUBFLOOR INFORMATION

The existing subfloor type and condition, preparation involved, cost and replacement ease, are all important considerations when selecting the best installation method for a particular job. The chart (on next page) provides a list of common subfloors and requirements for each installation method.

Subfloor Surface	When Installed over Underflor (Residential only)	When Directly Adhered to Subfloor
Suspended Wood subfloor over joist or trusses up to 19.2" OC.	• Single layer Sturd-I-Floor rated panel 23/32" or heavier • Double layer construction, minimum 1" thick	Double layer construction, minimum 1" thick with suitable underlayment panel. Do not install directly adhered over oriented strand board or particle board.
Wood Panel Underlayment	Plywood and other hardwood veneer panels, oriented strand board, NPA rated particle board. The surface must be smooth and structurally sound.	APA rated Underlayment grade plywood and other underlayment grade veneer panels that are intended for use as flooring underlayment and that carry a written warranty by the panel manufacturer.
Concrete, on, above and below grade	With vapor emissions up to 5 lbs.	With vapor emissions up to 5 lbs.
Lightweight Concrete and Gypsum Topping with a minimum 2000 psi compression rating	Preferred Method Must be smooth, dry and in sound condition. Repair all cracks, holes and damaged areas.	Must be smooth, dry and in sound condition. Repair all cracks, holes and damaged areas. Seal with a sealer/primer recommended by the topping manufacturer. A bond test is recommended. Do not install over powdery surfaces.
Radiant Heated Floors	Preferred Method	Gapping at end joints can occur with temperature fluctuations
	The temperature of the floor should be limited to 70°F (21°C) for 24 hours before, during and 48 hours after installation. There after the temperature should be raised gradually to the desired temperature. The maximum floor temperature should not exceed 85°F (29°C).	
Existing Resilient Flooring and Tile Note: Refer to warning statement below.	Must be single layer, fully adhered and in good condition. Do not install over heavy cushioned or cushioned backed flooring or tile installed below grade.	Must be single layer, fully adhered, and in good condition. Do not install over heavy cushioned or cushioned backed flooring, tile installed below grade or self adhering tile. Remove wax or polish and level embossed areas with an embossing leveler
Ceramic, Marble and Granite	Tile must be well bonded. Grind high spots and fill low areas to a smooth surface with a latex modified portland cement underlayment.	

SUBFLOOR PREPARATION

All subfloor surfaces must be clean, dry, smooth structurally sound and free of contaminants or reagents that can interfere with adhesion or cause discoloration to the floor such as paint, wax, oil, grease, solvent, adhesive residue, curing and parting compounds, sealers and surface hardeners. All surface imperfections should be leveled with a portland cement-based latex patching compound. Gypsum-based patching compounds are not recommended. Deviations in the subfloor should not exceed 3/16" in 10' or 1/16" in 1'. Subfloor deflection should not exceed 1/360th of the span.

Wood Floors must be structurally sound and free of movement with at least 18" (46 cm) of well-ventilated air space below. An effective vapor barrier laid on the ground surface must be used in a crawl space. Do not install flooring over wood subfloors laid directly on concrete or over sleeper construction laid over concrete subfloors.

Sand joints smooth and set fasteners 1/32" (.8 mm) below the surface. Fill underlayment joints wider than 1/32" (.8 mm). Rough, weathered or damaged subfloor panels must be sanded smooth or covered with a suitable underlayment panel. Congoleum will not assume responsibility for claims related to subfloor problems regardless of the underlayment or subfloor material used.

Concrete Floors must be clean, dry, smooth and free of dust. Level, rough or uneven surfaces, cracks and control joints with a portland cement-based patching compound. Do not install flooring over expansion joints. Moisture vapor emissions must not exceed 5 lbs. /1000 ft.²/24 hours when tested with calcium chloride test kits in accordance with ASTM F-1869 or be greater than 80% RH (relative humidity) when tested with IN Situ Probes in accordance with ASTM F 2170. Surface pH must be between 5 and 9.

Existing Resilient Floors must be single layer, fully adhered and well bonded over an approved subfloor. Remove all wax, floor finish or polish prior to installation. Use embossing leveler to level embossed floors. Do not install new flooring over loose laid or perimeter fastened floors, soft or heavily cushioned floors, cushioned backed flooring, self -adhered tile or tile installed below grade level.

Adhesive Residue must be completely removed on installations where flooring will be directly bonded to the subfloor. Refer to the Resilient Floor Covering Institute (RFCI) Recommended Work Practices for procedures involving adhesive removal. Do not use solvent or liquid adhesive removers to remove old adhesive residue. These products can have a damaging effect on the new floor and adhesive.

⚠ WARNING
Existing Resilient Flooring
WARNING: DO NOT SAND, DRY SWEEP, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT-BACK" ADHESIVE, OR OTHER ADHESIVE. THESE PRODUCTS MAY CONTAIN ASBESTOS FIBERS AND/OR CRYSTALLINE SILICA. AVOID CREATING DUST. INHALATION OF SUCH DUST IS A CANCER AND RESPIRATORY TRACT HAZARD.

Various federal, state, and local government agencies have regulations governing the removal of in-place asbestos containing material. If you are considering the removal of a resilient floor covering structure that contains or is presumed to contain asbestos, you must review and comply with all applicable regulations. Regulations outside the United States may vary.

Copies of the Resilient Floor Covering Institute Recommended Work Practices for the Removal of Resilient Floor Coverings are available from:

Resilient Floor Covering Institute (RFCI)
115 Broad Street
Suite 201
La Grange, GA 30204
www.rfci.com

INSTALLATION RECOMMENDATIONS

Layout
When planning the layout make sure tile and plank joints fall at least 6" (15.2cm) away from joints in the underlayment and or seams in existing flooring.

Plank Installations - Snap a chalk line down the center of the floor parallel with the long dimension of the room (Fig. 1).
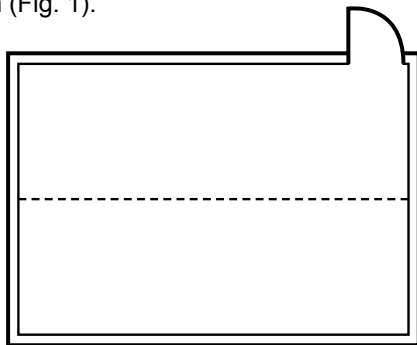
Fig. 1 - Center line

Adjust the chalk line if necessary to avoid narrow pieces at the side walls (Fig. 2).
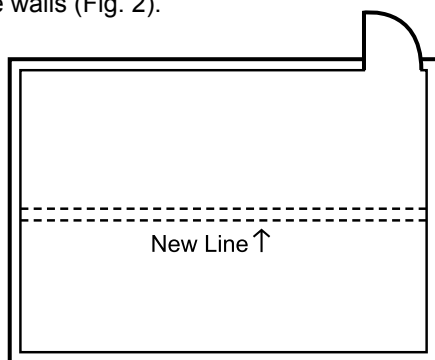
Fig. 2 - Adjust center line

Apply AD-32 Adhesive with a 1/16" x 1/32" x 1/32" notched trowel over one-half of the subfloor up to the center chalk line. Allow adhesive to dry completely to a tack, normally 30 to 60 minutes, longer in cool or humid conditions. Adhesive will turn from off white to translucent when dry.

Carefully install the first row of tile or plank along the edge of the chalk line. Start with a whole plank in the first row. Use 2/3rds of a plank to start the second row and 1/3rd of a plank for the third row. Thereafter install planks in a random layout offsetting end joints by at least 8". (Fig. 3).
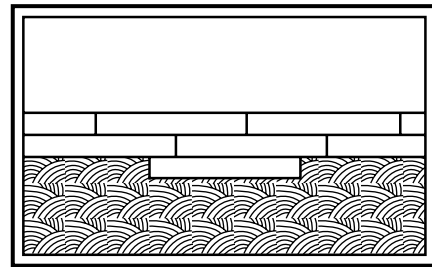
Fig. 3

Avoid using small pieces less than 6" at the wall. Always hold planks in a low angle when positioning them to ensure a tight joint. Complete each row including the cut piece at the end of the row. Always place cut ends against the wall. Complete the opposite side of the room and roll the entire floor in both directions with a 100 pound, three-section roller. Restrict to light traffic for the next 48 hours.

Tile Installations - Snap a chalk line down the center of the floor parallel with the long dimension of the room. Find the center of the chalk line and snap a second chalk line at a right angle to the center line. Adjust the chalk line if necessary to avoid narrow pieces at the side walls (Fig. 4).
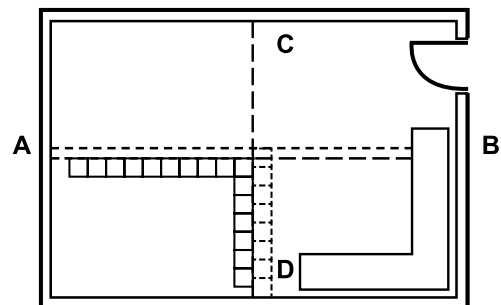
Fig. 4 - Adjust layout at center lines for larger border tiles.

18" x 36" tiles can be installed in an ashlar layout with a 9", 12" or 18" drop pattern, depending on the desired appearance. A square layout with all 4 corners lined up is not recommended. For Ashlar layouts additional chalk lines will be required to establish starting locations in each row (Fig. 5).
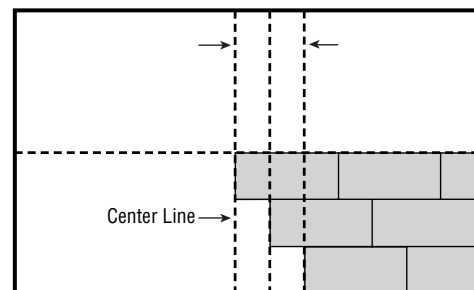
Fig. 5 - Ashlar layout starting lines.

Apply AD-32 Adhesive with a 1/16" x 1/32" x 1/32" notched trowel over one-half of the subfloor up to the center chalk line. Allow adhesive to dry completely to a tack, normally 30 to 60 minutes, longer in cool or humid conditions. Adhesive will turn from off white to translucent when dry.

Carefully position the first tile in the adhesive at the intersection of the center and perpendicular chalk lines (Fig. 6).
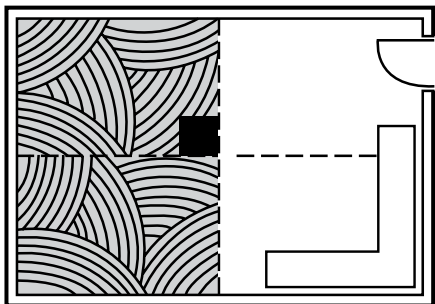
Fig. 6 - Position the first tile at the intersection.

The tile will bond instantly upon contact so it must be positioned accurately with out sliding it. Press the tile firmly into the adhesive once it is in position. Install square tiles in the first quadrant along the center and perpendicular lines in a stair step fashion (Fig. 7).
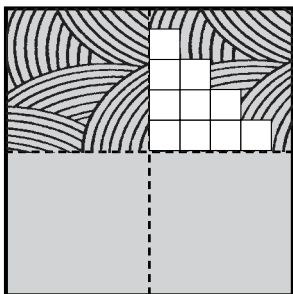
Fig. 7

Install rectangular tiles along the center line in straight rows. Complete each row, including cut pieces at the wall before proceeding to the next row (Fig. 8).
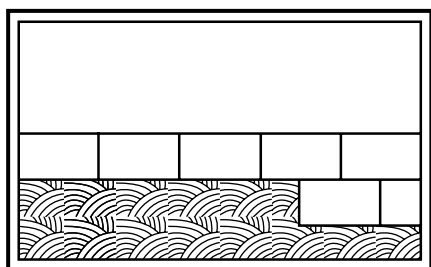
Fig. 8

Always hold the tile in a low angle when positioning it to ensure a neatly fit joint with no gaps. At the end of each row the tile will need to be cut to fit. Be sure to place cut ends toward the wall. Complete the opposite side of the room following the same procedure and roll the entire floor in both directions with a 100 pound, three-section roller. Restrict to light traffic for the next 48 hours.

CUTTING FLOORING TO FIT

The flooring will need to be cut to fit to walls and other vertical surfaces.

Straight Cuts

Place a loose piece directly over the top of the last full tile, making sure all edges are lined up. Use a whole piece as a measuring device, position one edge against the wall and mark the loose piece with a pencil along the opposite edge (Fig. 9).
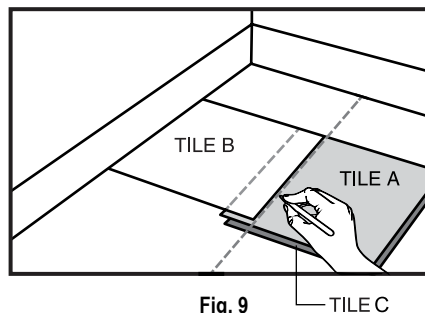
Fig. 9

Next, place the marked tile on a cutting board. Using a carpenter square as a guide, score the pencil line carefully with a sharp utility knife. Break or cut the tile along the score mark.

Irregular Cuts

Scribe the flooring to fit to irregular shapes such as door trim, pipes, etc. Cut with a utility knife.

Congoleum Underflor

Underflor provides an alternative to direct bonding to the subfloor and helps to address various subfloor challenges.

GENERAL INFORMATION

• Always roll sheets of Underflor tightly around a tube with the vinyl side out for storing and transporting. Avoid distorting Underflor.

• Condition the room and all flooring materials at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during and 72 hours after installation.

• All Underflor underlayment and finished flooring must be installed with a 1/4" space around the perimeter of the room to allow for expansion and contraction of the flooring system and subfloor. Under cut door casing and slide finished flooring under for a finished appearance.

• Use AD-32 Adhesive for installing products over Underflor. Hard setting adhesives should never be used with Underflor.

UNDERFLOR INSTALLATION

Only Impact and Endurance are recommended for installation over Underflor. Install Underflor with the vinyl side down just prior to installation of finished flooring. Always install Underflor running perpendicular to the long dimension of the product. Install Underflor with joints positioned at least 4" away from the seams in the underlayment. Install planks with staggered end joints positioned at least 2" away from the seams in the Underflor (Fig. 10).

Fig. 10

Thoroughly sweep the floor to remove all loose dirt and debris. Unroll the first sheet and trim it to fit allowing a 1/4" space between the edge of the sheet and the wall.

Unroll the second sheet and position it with the seam edge butted lightly up to the first sheet.

Tape the sheets together with 2" wide clear packing tape or other thin single face plastic tape available through office supply stores and most home centers. Apply the tape, centered directly over the top of the seam edges. Roll the tape with a steel seam roller.

Suitable Packaging Tapes Include:
• Scotch 3850 Packing Tape
• Duck™ Tape Standard Packaging Tape
• Shurtape® HP Series

Do not use masking tape, fiber reinforced tape, duct tape or other thick tapes that might telegraph through the finished flooring.

Install finished flooring immediately after installing Underflor to prevent contamination that could affect the adhesive bond.

FINISHED FLOORING INSTALLATION

Establish the layout as previously described and snap center and perpendicular chalk lines as required making certain that the finished flooring joints are at least 2" away from the seams in the Underflor.

Spread AD-32 Adhesive using a 1/16" x 1/32" x1/32" notched trowel over one-half the floor up to the center line. Do not apply excess adhesive. Allow adhesive to dry completely to a tack, normally 45 to 60 minutes, before installing flooring. Adhesive will turn from off-white to translucent when ready.

When installing flooring over UnderFlor, slight growth (buckles) may occur immediately after adhesive application. This is normal and will not affect the finished flooring installation.

Install flooring following installation instructions as previously outlined for direct bond installation. Remember to allow a 1/4" expansion space around the perimeter of the room. If necessary to adjust or remove a tile or plank, use a heat gun to warm it up first. Complete the opposite side of the room following the same procedure.

IMMEDIATELY AFTER INSTALLATION

Replace the base moldings and return appliances and furniture to the room by rolling or sliding them over strips of hardboard.

When installing over UnderFlor, all finish trim and transition moldings must be installed so they do not bind or restrict the finished flooring from moving when expansion and contraction occurs during seasonal changes. Fasten the trim to the wall not to the subfloor. Do not drive fasteners into the floor or underlayment.

Seal all areas that may be exposed to surface spills, i.e. tubs, toilet and showers with a high quality acrylic caulking.

REPAIRS

To replace a damaged plank follow the procedures below:

• Using a sharp utility knife cut through a corner of the damaged plank taking care not to cut into the adjacent plank or into the Underflor below.
• Warm the plank with a heat gun.
• Lift the end of the plank and continue heating.
• As you provide sufficient heat, the plank will release from the adhesive.
• Lift out the entire plank and warm the exposed adhesive.
• Install the new plank.
• Set the new plank firmly into place and roll with a hand roller.
• Normal activity can resume immediately after completing the repair.

IMPACT SMARTLOCK INSTALLATION INSTRUCTIONS

Impact SmartLock Luxury Vinyl Plank Flooring with Interlocking Joints is part of the Timeless by Congoleum collection. Impact SmartLock is constructed with a patented interlocking joints that locks the plank together to form a tight, durable, water proof joint. Impact SmartLock is installed as a floating floor so no adhesive is required.

GENERAL INFORMATION

• Impact SmartLock is recommended for residential interior use in enclosed rooms with continuously maintained temperatures ranging between 65°F and 85°F. Do not install flooring in areas where wide temperature fluctuations can occur or over sloped floors, ramps or in wet areas

• Handle cartons and plank flooring carefully to protect the locking edge profile. Always store and transport cartons neatly stacked on a smooth, flat, solid surface. Do not stack more than 10 cartons high.

• Acclimate the flooring and room(s) at a constant temperature between 65°F and 85°F for 48 hours prior to, during and continuously after installation.

• Mix planks from several different cartons to ensure a random appearance.

• Always allow a 1/4" expansion space around the entire perimeter of the room, at all base cabinets, fixtures and pipes. Cover the exposed edges with trim or fill the gap with a high quality acrylic caulking.

• All base cabinets must be installed prior to installing flooring. Do not install base cabinets or island cabinets on top of the floor.

• In a large single room with a length of 40 feet and a width greater than 25 feet, the addition of T-molding expansion joints will be required. When transitioning from an adjacent area into another room (i.e. a hallway into a bedroom) maintain adequate expansion in the doorways by using T-moldings and undercutting the door casings.

- **Protect Impact SmartLock finished installations from prolonged exposure to direct sunlight. Close curtains or blinds where extreme sunlight hits the floor. Prolonged direct sunlight can result in fading and discoloration. Excessive surface temperatures can cause floor expansion that may result in buckling or delamination.**

PREPARING THE AREA
- Remove all furniture and appliances from the room(s).
- Remove wall and doorway trim
- Always undercut wood door casings

SUBFLOOR RECOMMENDATIONS
Impact SmartLock can be installed over a variety of subfloor surfaces including concrete on all grade levels, wood subfloors and many existing hard surface floors. The subfloors must be clean, smooth, flat, solid and dry. Do not install planks over floors that are sloped for drainage or uneven floors where deviations are greater than 3/16" in 10' or 1/16" in 1'. Subfloor deflection should not exceed 1/360th of the span. Uneven or wavy floors must be leveled with portland cement based patching compound.

WOOD SUBFLOORS
Impact SmartLock is suitable for installation over double layer wood subfloors a minimum of 1" thick. Single layer subfloors constructed with APA rated Sturd-I-Floor panels, 23/32" or heavier should be covered with a minimum 1/4" underlayment. Joist spacing should not exceed 19.2". Set fasteners 1/32" below the subfloor surface, sand joints smooth and fill holes and gaps wider than 1/8" wide. Install suitable underlayment when necessary to achieve a flat or solid surface. Impact SmartLock can be installed over underlayment grade plywood, lauan plywood and other underlayments that are recommended by the panel manufacturer for use with vinyl flooring.

CONCRETE SUBFLOORS
Impact SmartLock can be installed over concrete on all grade levels. Moisture vapor emissions should not exceed 5 lbs./24 hour per 1,000 sq. when tested with the Anhydrous Calcium Chloride Test in accordance with ASTM F 1869 or 80% RH in accordance with ASTM F 2170 "Standard Test Method for Determining Relative Humidity in Concrete Slabs using in situ Probes".

Fill cracks; saw cuts and control joints and level wavy floors or uneven areas that exceed 3/16" in 10' or 1/16" in 1'. Do not install flooring over expansion joints.

RADIANT HEATED SYSTEMS
Impact SmartLock can be installed over in-floor radiant heating systems provided the subfloor surface does not exceed 85°F at any point. The initial floor temperature should not exceed 70°F for 24 hours prior to and 48 hours after installation. Thereafter the temperature should be gradually increased to the desire setting up to 85°F. Radiant heating systems that are installed on top of the subfloor surface must be covered with a minimum 3/4" concrete topping.

EXISTING FLOORING
Impact SmartLock can be installed over a variety of finished floors including single layer resilient sheet floor and tile, ceramic, marble and terrazzo. The surface must be in good condition with no indication of excessive moisture or moisture damage. Level deep or wide grout lines with embossing leveler. Do not install flooring over heavy cushioned floors, cushioned backed floors or over tile installed over concrete below grade level.

The grout joints in ceramic tile and marble must be leveled so they are flush with the tile surface. Additionally the tile may require several skim coats to achieve a flat surface.

⚠ ASBESTOS WARNING
WARNING: DO NOT SAND, DRY SWEEP, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT-BACK" ADHESIVE, OR OTHER ADHESIVE. THESE PRODUCTS MAY CONTAIN ASBESTOS FIBERS AND/OR CRYSTALLINE SILICA. AVOID CREATING DUST. INHALATION OF SUCH DUST IS A CANCER AND RESPIRATORY TRACT HAZARD.

INSTALLATION
For best appearance planks should be installed parallel to the long dimension of the room and preferably parallel with outside light sources i.e. windows and doors.

Measure the width of the room and snap a chalk line down the center of the floor. Determine the width of the plank in the last row either through measurements or dry layouts. If smaller than one-half of the plank width, adjust the chalk line in either direction one-half of the plank width to achieve larger cut planks at the side walls. Snap a second chalk line by measuring from the center line over toward the starting wall. Use a multiple of the plank width to establish the starting line for the first rows of planks.

Start the installation in the left hand corner of the room with the edge of the plank accurately positioned at the chalk line and with the tongue side and end toward the starting wall. If necessary trim the plank to fit to the wall allowing a 1/4" expansion space. If starting the first row with a whole plank width it will be necessary to trim the tongue off against the wall. Always place the cut edge against the wall.

To trim planks use a utility knife and a straight edge. Score the top surface of the plank and flex it downward to separate the pieces.

Attach the end joints of the planks in the first row by inserting the tongue into the groove while holding the plank at a 10° to 15° angle to the floor. Apply light pressure inward and down until the planks lock together (Fig. 1). Use spacers in the first row between the edge and end of the planks and the wall to maintain a 1/4" expansion space.

Tongue   Groove

Fig. 1

8
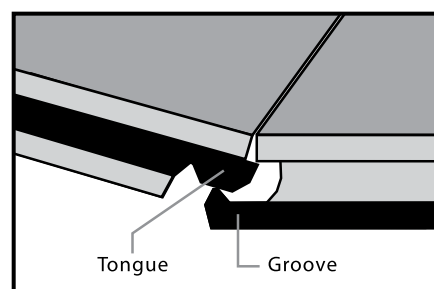
Start the second row using 1/3rd of a plank (Fig. 2).
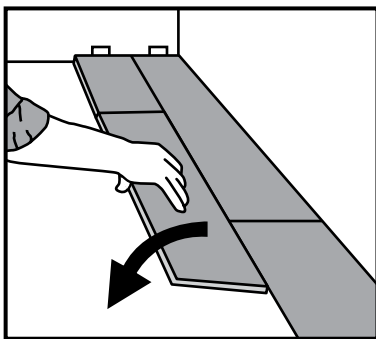
Fig. 2

Place the cut end against the wall. Insert the tongue on the long side of the plank into the groove of the plank in the first row. Hold the plank in a 10º to 15º angle while applying light pressure inward and down until they lock together. To complete the second and all successive rows it will be necessary to lock the short end into the previous plank first before locking the long side of the plank. Angle the plank and push the tongue into the groove until the tongue locks into place. It may be necessary to lift both planks slightly to lock the long joint together. Complete the second row allowing a 1/4" expansion space at the end of the row.

Start the third row using 2/3rds of a plank with the cut end against the wall. Complete each row thereafter using a random layout with end joints off-set by at least 8". Plan the layout to avoid using small planks (less than 6") at the walls. The cut piece at the end of the row can often be used to start the next row provided it achieves a random layout. Always place the cut end against the wall and allow a 1/4" expansion space.

Impact SmartLock is unique in that it can be installed easily when working forward (placing the tongue in to the groove) or backward (placing the groove in to the tongue).

This allows for easy fitting around door trim and changing direction to go into alcoves or adjoining rooms. SmartLock can also be assembled by using a pull bar or tapping block in difficult areas such as the last row and when fitting around door trim. Use a pull bar to lock the joints together in the last row (Fig. 3).
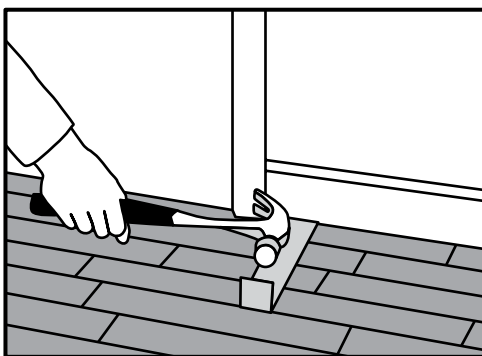
Fig. 3

Always use a pull bar on the cut edge of the plank. Factory edges can be damaged if the pull bar is used directly against them.

When fitting around door trim it will be necessary to slide the plank under the trim. This can be accomplished by starting the row on the side of the room with the door trim and then sliding the plank into place once it is attached. The row can be completed by inserting the tongue in to the groove or the groove into the tongue depending on the direction. A tapping block can also be used to lock the joints together while the planks are in a flat position. Use a piece of scrap flooring with the corresponding joint male or female and a series of light taps until the joint is gradually locked together. Do not hit the edge directly or use excessive force as it could damage the edge of the plank.

SPECIAL INSTRUCTIONS

Bathrooms
When Impact SmartLock is installed in a bathroom the flooring can be laid under the toilet provided that the floor is separated from adjacent rooms with a doorway threshold or transition molding. Otherwise the flooring should be fit around the toilet leaving a 1/8" expansion space. Use a high quality acrylic caulking to fill the expansion space at the toilet, bathtub, shower and all wet areas to prevent surface water from seeping under the floor.

Stairs
Impact SmartLock can be installed fully adhered over steps using AD-32 Adhesive. Follow the instruction on the adhesive for trowel size and drying time. Always use a flush stair nose molding to finish each step at the nose.

Finishing the Job
Remove all spacers. Install door and wall trim so they do not pin or restrict the floor from moving. Do not install trim tight to the floor. Drive fasteners into the wall and not the floor. When installing doorway transition moldings allow a 1/4" expansion space between the edge of the floor and the molding fasteners. Do not drive fasteners in to the floor.

Return appliances to the room by rolling or sliding over strips of hardboard to prevent damaging the floor.

REPAIRS
Impact SmartLock is a tough, durable floor however if a plank becomes damaged it can be replaced.

Damaged planks along the wall can be replaced by unlocking the planks in that area and then re-installing them after the replacement plank is installed. Follow the instructions below for replacing a plank in the body of the floor.

• Use a straight edge and utility knife to make a cut down the center of the damaged plank to within 2" of the ends.

• Make diagonal cuts from the corner of the plank back to the center cut.

Fig. 4

• Remove the damaged plank by lifting the edge of each piece until it unlocks.

• Prepare the replacement plank by removing the bottom of the groove along the long and short side. Check the replacement piece by laying it into place. The plank should fit neatly into place with out gaps at the joints. Remove the plank.

- Before completing the repair, place a 2" wide strip of wax paper under the centered under the edge of the tongue on the long and short side. This will prevent adhesive from bonding the plank to the subfloor.
- Next apply a 1/8" bead of Loctite Power Grab clear heavy duty construction adhesive to the exposed groove along the long and short end of the surrounding planks. Do not use excess adhesive.
- Immediately while adhesive is wet install the replacement plank by inserting the tongue into the groove along the long side. Use a tapping block to lock the short end and then drop the plank into position. Remove excess adhesive from the surface and roll the edges with a steel hand roller. Clean the surface immediately with a clean cloth and mild detergent to remove any adhesive residue. Then dry with a clean soft cloth. Note, adhesive and adhesive film is not removable if allowed to dry on the surface of the floor. Apply weight to the adhered edges for 20 to 30 minutes.
- Keep traffic off the repair for 12 hours.

ENDURANCE SMARTLINK INSTALLATION INSTRUCTIONS

Endurance SmartLink Plank is a floating flooring system that utilizes an attached adhesive strip to connect the planks together. No additional adhesive is required. You simply connect the planks together by pressing the edges into the adhesive strip. The planks bond to each other, not to the floor.

GENERAL INFORMATION

- Endurance SmartLink is recommended for installation in enclosed heated areas where HVAC has been in operation for at least 10 days. Do not install Endurance SmartLink on ramps or in rooms with sloping floors or floor drains.
- Always handle, store and transport Endurance SmartLink carefully to prevent distortions. Store and transport cartons on a flat surface in neat stacks no more than 10 cartons high. Store cartons flat, never on the end or side.
- The subfloor and all flooring material must be conditioned at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during and 72 hours after installation. Thereafter, maintain a room temperature between 55°F (13°C) and 85°F (29°C).
- Endurance SmartLink is a floating floor. Allow 1/4" space for expansion between the planks and all vertical surfaces. Cover the space with trim. Do not install base cabinets on top of Endurance SmartLink.
- In a large single room with a length of 40 feet and a width greater than 25 feet, the addition of T-molding expansion joints will be required. When transitioning from an adjacent area into another room (i.e. a hallway into a bedroom) maintain adequate expansion in the doorways by using T-moldings and undercutting the door casings.
- Do not install Endurance SmartLink in a dusty environment or remove the paper liner from the adhesive strip until ready to be covered with a plank.

Subfloor Surface	Specification
Wood subfloor suspended over joist or trusses up to 19.2" OC	• Single layer Sturd-I-Floor rated panel 23/32" or heavier • Double layer construction, minimum 1" thick • Minimum of 18" of well ventilated air space below structural supports
Wood Underlayments	Plywood, other hardwood veneer panels, particleboard, OSB - Sand joints smooth and set fasteners 1/32" below the surface. Do not install over weathered or rough underlayment.
Concrete, on, above and below grade	With vapor emissions 5 lbs. or less. Do not install over expansion joints.
Lightweight Concrete and Gypsum Topping	Minimum 2000 psi compression rating. Must be smooth, dry and in sound condition. Repair all cracks and damaged areas.
Radiant Heated Floors	The temperature of the floor should be limited to 70°F (21°C) for 24 hours before, during and 48 hours after installation. Thereafter the maximum floor temperature should not exceed 85°F (29°C).
Existing Resilient Flooring and Tile Note: Refer to warning statement below.	Must be single layer, fully adhered and in good condition. Do not install over heavy cushioned or cushioned backed flooring or tile installed below grade. Heavily embossed floors should be leveled with embossing leveler.
Ceramic, Marble and Terrazzo	Must be well bonded. Grind high spots and fill low areas to a smooth surface with a latex modified portland cement underlayment to achieve a flat surface.

- **Protect Impact SmartLock finished installations from prolonged exposure to direct sunlight. Close curtains or blinds where extreme sunlight hits the floor. Prolonged direct sunlight can result in fading and discoloration. Excessive surface temperatures can cause floor expansion that may result in buckling or delamination.**

Preparing the Area
- Move all furniture, appliances, and fixtures from the room.
- Remove all binding strips or other restrictive molding from doorways, walls, etc.
- Undercut wood door casing so that the flooring can be slid under it.

SUBFLOOR REQUIREMENTS

Endurance SmartLink Plank can be installed directly over a variety of subfloor surfaces. All subfloor surfaces must be clean, dry, smooth and free of movement. In remodel applications remove all adhesive residue or other substances that can prevent the floor from floating. Deviations in the subfloor should not exceed 3/16" in 10' or 1/16" in 1'. Subfloor deflection should not exceed 1/360th of the span. Set nails and fasteners 1/32" below the surface.

Fill depressions wider than 1/8" with a portland cement-based latex patching compound.

⚠ WARNING: DO NOT SAND, DRY SWEEP, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT-BACK" ADHESIVE, OR OTHER ADHESIVE.

These products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard.

Various federal, state, and local government agencies have regulations governing the removal of in-place asbestos containing material. If you are considering the removal of a resilient floor covering structure that contains or is presumed to contain asbestos, you must review and comply with all applicable regulations. Regulations outside the United States may vary.

Copies of the Resilient Floor Covering Institute Recommended Work Practices for the Removal of Resilient Floor Coverings are available from:

Resilient Floor Covering Institute (RFCI)
115 Broad Street • Suite 201
La Grange, GA 30204 • www.rfci.com

Layout – Determine the direction that planks will be installed in the room. Normally the long direction of the plank will be installed parallel with the long direction of the room. To balance the flooring in the room, mark the center of the floor. Measure the distance from the mark to the wall. Divide this measurement by the plank width (6"). If the remainder is less than half a plank width (3"), then add 3" to the remainder to determine the width of the plank in the first row.

Example: Room width 12'-2" or 6'-1" on each side of the center mark 6'-1" (73") divided by 6" equal 12 with a remainder of 1". Since 1" is less than one half of the plank width, add 3" to the remainder for a starting plank width of 4".

Note: Check to make sure that the joints in the finished floor offset joints in the underlayment by at least 2". Adjust the layout if necessary.

Installation – Note: The first row of planks can be secured to the subfloor with a strip of thin double face tape to prevent it from moving during installation. Use a string or chalk line to make sure the first row is straight before the planks are secured to the tape.

Lay the first row of planks along the wall starting in the left corner with the adhesive strips facing out away from the walls (Fig. 1).

Adhesive Strip

Figure 1
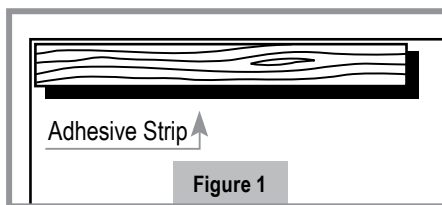
Allow a 1/4" space between the edge of the planks and the wall, base cabinets and any other vertical surfaces. Remove the paper liner from the adhesive strip at the end of the first plank and secure the end of the next plank by pressing down on the planks.

Caution: The paper liner is slippery. Place it into the trash immediately after it is removed from the adhesive strip to avoid a slip hazard. Protect the exposed adhesive strip from dust and foot traffic.

Do not remove the paper liner until you are ready to cover the adhesive strip with another plank. Continue to install the planks in the first row including the cut piece at the end of the row.

Lay the second row starting in the left corner with a plank cut 2/3 the length or about 24" (Fig. 2). Place the cut end against the wall. The piece you cut off can be used at the other end of the row if the layout permits. Remove the paper liner from the installed plank in the first row and place it in the trash. Lay the plank by holding one end up while slowly positioning the other end and edge into the adhesive strip against the previous laid planks to achieve a tight joint. Do not slide planks together. If adjustments are required, lift the plank off the adhesive strip and reposition it. Complete the second row including the cut piece at the end of the row. Use a hand roller to secure the plank in the adhesive strip and level the joints.

Start the third row with a plank cut to 1/3 the length; about 12" (Fig. 2).

Figure 2
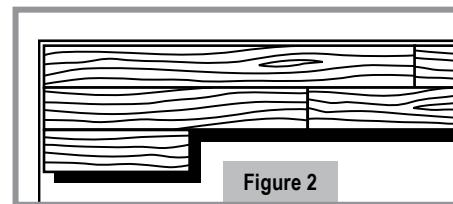
Thereafter maintain a random layout with end joints staggered by at least 8". Always put the cut end against the wall. Plan the layout to avoid using small pieces (less than 6") at the ends of the row.

Once you have completed 3 or 4 rows, it is easier to work from on top of the installed plank. Continue to install the planks by laying each plank in place without sliding it. Make sure the joints are laid together tight; if necessary, lift the plank and re-position it to close any open joints.

After completing the installation roll the entire floor in both directions with a 100 pound three section roller. Use a hand roller to secure the edges and ends in the adhesive strip and level the joints.

Cutting – Cut planks with a sharp utility knife and straight edge or square.

Measure the space between the last whole plank and the wall and subtract 1/4". Mark the plank and place it over a cutting board. Carefully score the top surface of the plank, release liner and adhesive strip where it will be cut. Bend the plank at the score mark until it breaks. Cut the tape on the bottom side at the score mark to separate the pieces. Install the plank with the cut end against the wall. For more intricate cuts make a paper template of the area and transfer it to the plank.

Caution: *Use extreme caution when using a knife to avoid injury. Always keep fingers and hands away from the cutting path. Keep children and pets away from the work area.*

Intricate Room Layouts – Some installations with multiple rooms, closets, intricate layouts or alcoves may *require changing the direction of the planks.* This can easily be done by removing the adhesive strips from a plank and placing them along the edge and end of the plank where the direction will change. Carefully position the adhesive strip centered along the edge and end of the plank without overlapping the strips. When done correctly, the plank(s) will have an adhesive strip on both sides and one end (Fig. 3).

Adhesive Strip

Figure 3
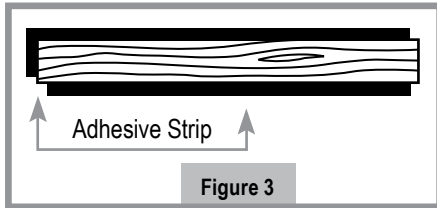
Continue to install planks in the opposite direction as required.

Bathrooms

Only when the bathroom is installed as a separate room can the toilet be set on the planks. Always fill the gap around the entire perimeter and at fixtures with a high quality acrylic or silicone caulking to prevent water from seeping under the floor. Caulking should be used even when the perimeter will be covered with trim.

Repairs

Small chips or gouges can often be repaired by filling the damaged area with a matching wax stick that is available in most home centers or Testors® model paint available in craft stores. If damage is more extensive, a plank can be removed and replaced easily. To replace a damaged plank follow the procedures below:

• Using a sharp utility knife cut through a corner of the damaged plank taking care not to cut into the adjacent planks.

• Use a putty knife and hammer if necessary to lift the corner of the plank.

• After the corner is removed, carefully lift the plank off the adhesive strip. Use one hand to lift the plank and the other to hold the floor down. If necessary, use a heat gun to heat the plank along the edges over the adhesive strip. This will allow it to release more easily.

• Remove the adhesive strips from the replacement plank.

• Install the replacement plank starting in the corner and working toward the opposite end.

• Roll the replacement plank with a steel hand roller to seat it into the adhesive and level the edges.

IMMEDIATELY AFTER INSTALLATION

• Install wall trim around the entire perimeter to cover the 1/4" expansion space. Place trim lightly over the floor and secure it to the wall or cabinets, not to the floor. Install doorway transition moldings. Do not pin the floor with the molding or drive fasteners through the floor.

• Seal the edge with a high quality acrylic or sicone caulking in wet areas to prevent water from seeping under the floor.

• Return appliances and furniture to the room by rolling or sliding them over strips of plywood or hardboard. Install protective felt pads on chairs and other movable furniture.

Congoleum®

Size: (Nominal) 6" x 36" (15.24cm x 91.44cm)
Ft²/Carton: 36 (3.34m²)
Pieces/Carton: 24

Installation System: Sotto can be installed directly adhered to the subfloor or as a floating floor over Congoleum Underflor.

Adhesive: Use Congoleum AD-32 or DS100 pressure sensitive adhesive for all recommended applications where flooring will be bonded directly to the subfloor or over Underflor.

AD-32 or DS100 Adhesive:
Trowel : 1/16" x 1/32" x 1/32"
(1.6mm x .08mm x .08mm)

Coverage: 200-250 ft²/gallon
(18.5 to 23.2 m²/3.78 L)

WARNING

Existing Resilient Flooring

⚠ **WARNING:** DO NOT SAND, DRY SWEEP, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT-BACK" ADHESIVE, OR OTHER ADHESIVE. THESE PRODUCTS MAY CONTAIN ASBESTOS FIBERS AND/OR CRYSTALLINE SILICA. AVOID CREATING DUST. INHALATION OF SUCH DUST IS A CANCER AND RESPIRATORY TRACT HAZARD.

Various federal, state, and local government agencies have regulations governing the removal of in-place asbestos containing material. If you are considering the removal of a resilient floor covering structure that contains or is presumed to contain asbestos, you must review and comply with all applicable regulations. Regulations outside the United States may vary.

Copies of the Resilient Floor Covering Institute Recommended Work Practices for the Removal of Resilient Floor Coverings are available from:

Resilient Floor Covering Institute
115 Broad Street
Suite 201
La Grange, GA 30240
www.rfci.com

MOLD AND MILDEW ISSUES

Prior to removing an existing floor following the RFCI Recommended Work Practices for Removal of Resilient Floor Coverings (unless state or local law requires other measures), if there are visible indications of mold or mildew or the presence of a strong musty odor in the area where resilient flooring is to be removed or installed, the source of the problem should be identified and corrected before proceeding with the flooring work. To deal with mold and mildew issues you should refer to the EPA guidelines that address mold and mildew. Depending on the mold and mildew condition present, those remediation options range from clean up measures using gloves and biocide to hiring a professional remediation contractor to address the condition. Remediation measures may require structural repairs such as replacing the underlayment and/or subfloor contaminated with mold and mildew as a result of prolonged exposure to moisture.

The EPA mold guidelines are contained in two publications "A Brief Guide to Mold, Moisture and Your Home" (EPA 402-K-02-003) and "Mold Remediation in Schools and Commercial Buildings" (EPA 402-K-01-001). Appendix B of the "Mold Remediation in Schools and Commercial Buildings" publication describes potential health effects from exposure to mold, such as allergic and asthma reactions and irritation to eyes, skin, nose and throat. These publications can be located on EPA's website at www.epa.gov/iaq/molds/.

GENERAL INFORMATION

It is important that flooring products maintain proper temperature at the time of installation in order to minimize thermal dimensional changes. The subfloor, all flooring material, and adhesive must be conditioned at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during and 48 hours after installation. Thereafter, maintain a room temperature between 55°F (13°C) and 100°F (38°C).

When using flooring from two or more cartons, make sure pattern and run numbers found on the carton are the same. This information is stenciled on the outside of each carton.

1

Tools and Materials

- Underflor (optional)
- AD-32 Adhesive - recommended
- DS100 Adhesive - alternative
- 1/16" x 1/32" x 1/32" notched trowel
- 100-pound, 3-section, steel roller
- Chalk line
- Carpenter square
- Utility knife (tile cutter optional)
- Cutting board
- Tape measure

PREPARING THE AREA

- Move all furniture, appliances, and fixtures from the room.
- Remove all binding strips or other restrictive molding from doorways, walls, etc.
- Undercut wood door casing where possible so that the flooring can be slid under it.

SUBFLOOR REQUIREMENTS

Sotto can be installed directly bonded to the subfloor or as a floating floor over Congoleum Underflor. The existing subfloor type and condition, preparation involved, cost and replacement ease, are all important considerations when selecting the best installation method for a particular job. The chart below provides a list of common subfloors and requirements for each installation method.

Subfloor Preparation

All subfloor surfaces must be clean, dry, smooth and free of movement. All surface imperfections should be leveled with a portland cement-based latex patching compound. Gypsum-based patching compounds are not recommended.

For details on suitable subfloors and preparation when directly adhering to the subfloor, refer to the Congoleum Professional Installation Guide at **www.congoleum.com.**

Subfloor Surface	When Installed over Underflor	When Directly Adhered to Subfloor
Suspended Wood subfloor over joist or trusses up to 19.2" OC	• Single layer Sturd-I-Floor rated panel 23/32" or heavier. • Double layer construction, minimum 1" thick.	Double layer construction, minimum 1" thick with suitable underlayment panel. Do not install directly adhered over oriented strand board or particle board.
Wood Underlayments	Plywood and other hardwood veneer panels, oriented strand board, NPA rated particle board.	APA rated Underlayment grade plywood and other underlayment grade veneer panels.
Concrete, on, above and below grade	With vapor emissions up to 5 pounds.	With vapor emissions up to 3 pounds.
Lightweight Concrete and Gypsum Topping with a minimum 2000 psi compression rating	Preferred Method Must be smooth, dry and in sound condition. Repair all cracks and damaged areas.	Must be smooth, dry and in sound condition. Repair all cracks and damaged areas. Seal with a sealer/primer recommended by the topping manufacturer. A bond test is recommended. Do not install over powdery surfaces.
Radiant Heated Floors	Preferred Method	Gapping at end joints can occur with temperature fluctuations.
	The temperature of the floor should be limited to a maximum temperature of 70°F (24°C) for 24 hours before, during and 48 hours after installation. Thereafter the maximum floor temperature should not exceed 85°F (29C).	
Existing Resilient Flooring and Tile	Must be single layer, fully adhered and in good condition. Do not install over heavy cushioned or cushioned backed flooring or tile installed below grade.	Must be single layer, fully adhered, and in good condition. Do not install over heavy cushioned or cushioned backed flooring, tile installed below grade or self adhering tile. Remove wax or polish and level embossed areas with an embossing leveler.
Ceramic, Marble and Granite	Tile must be well bonded. Grind high spots and fill low areas to a smooth surface with a latex modified portland cement underlayment.	

Congoleum Underflor

Underflor is the all-in-one underlayment system for floating installations of **Sotto.**

Underflor provides an economical solution for installing **Sotto** as a floating flooring system over a variety of subfloor surfaces. Now, one underlayment covers it all; wood, concrete, most old hard surface flooring, gypsum topping, even old adhesive residue and painted surfaces. Underflor is constructed in 6' wide rolls, and since it's a floating underlayment, it requires no fasteners or special tools so it's quick and easy to install.

Recommended Use

• Residential applications on all grade levels

• Interior use in dry, heated areas

• Do not install over ramps, in showers or other wet areas

GENERAL INFORMATION

• Always roll sheets of Underflor tightly around a tube with the vinyl side out for storing and transporting. Avoid distorting Underflor.

• Condition the room and all flooring materials at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during and 48 hours after installation.

• All Underflor underlayment and finished flooring must be installed with a 1/4" space around the perimeter of the room to allow for expansion and contraction of the flooring system and subfloor. Under cut door casing and slide finished flooring under for a finished appearance.

• Use AD-32 Adhesive for installing **Sotto** over Underflor. Hard setting adhesives should never be used with Underflor.

Underflor Installation

Install Underflor with the vinyl side down just prior to installation of finished flooring.

Always install Underflor running perpendicular to the long dimension of the plank flooring (Fig. 1). Install planks with staggered end joints positioned at least 2" away from the seams in the underlayment.
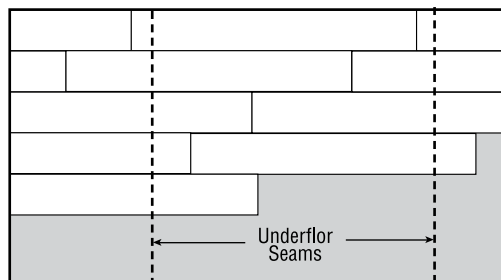
Figure 1: Install Underflor with seams perpendicular to the long dimension of the plank flooring with staggered end joints at least 2" away from seams.

Thoroughly sweep the floor to remove all loose dirt and debris.

Unroll the first sheet and trim it to fit allowing a 1/4" space between the edge of the sheet and the wall.

Unroll the second sheet and position it with the seam edge butted lightly up to the first sheet.

Tape the sheets together with 2" wide clear packing tape or other thin single face plastic tape available through office supply stores and most home centers. Apply the tape, centered directly over the top of the seam edges. Roll the tape with a steel seam roller.

Suitable Packaging Tapes Include:

• Scotch 3850 Packing Tape

• Duck™ Tape Standard Packaging Tape

• Shurtape® HP Series

Do not use masking tape, fiber reinforced tape, duct tape or other thick tapes that might telegraph through the finished flooring.

Install finished flooring immediately after installing Underflor to prevent contamination that could affect the adhesive bond.

PLANK INSTALLATION

First determine the direction to install the planks. As a general rule, they are normally installed running in the long direction of the main room(s).

Place a mark in the center of the floor at each end of the room. Snap a chalk line between the marks (Figure 3).

To avoid small narrow planks along the side walls, divide the distance from the center line to the wall by the plank width (6"). If the remainder is less than half a plank width, adjust the center line one half the width of a plank in either direction (Figure 4). This will provide a balanced layout with larger cut pieces at the wall.
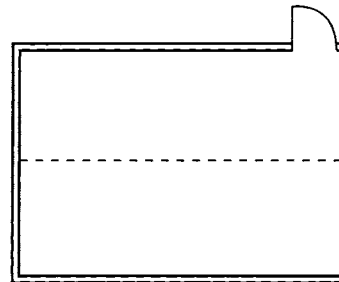
Figure 3: Center line   Figure 4: Adjust center line
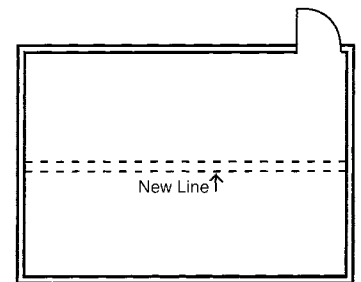
Spread adhesive with a 1/16" x 1/32" x 1/32" trowel over one-half the floor up to the final center line. Do not apply excess adhesive. Allow adhesive to dry completely to a tack, normally 45 to 60 minutes, before installing plank. Adhesive will turn from off white to clear when ready.

Start installing the plank along the center line (Figure 5). Complete each row, including cut pieces at the wall before proceeding to the next row. Offset cross joints by at least 6" and position planks in a random fashion for the best appearance. Position each plank, tightly against the previous one, by pressing it firmly into place without sliding it. Remember to offset end joints randomly in each row, avoid small pieces less than 6" at the border, and be sure to place cut ends toward the wall.

Complete the opposite side of the room following the same procedure and then roll the entire floor with a 100 pound three-section roller in both directions.
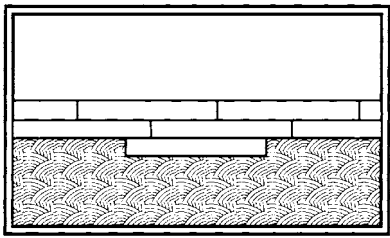
Figure 5

CUTTING PLANK TO FIT

Sotto can be cut with a sharp utility knife or a tile cutter. Mark the plank with a pencil where it is to be cut and place it on a cutting board. Using a carpenter square as a guide, score the pencil line carefully with a sharp utility knife. Break or cut plank along the score mark.

Note: When installing **Sotto** over Underflor, always cut the plank allowing a 1/8" to 1/4" space around the entire perimeter.

CAUTION: Keep fingers away from knife blade to avoid injury. Install the plank with the cut edge against the wall.

IRREGULAR CUTS

Scribe plank to fit to irregular shapes such as door trim, pipes, etc. Cut with a utility knife.

IMMEDIATELY AFTER INSTALLATION

Replace the base moldings and return appliances and furniture to the room by rolling or sliding them over strips of hardboard.

When installing over Underflor, all finish trim and transition moldings must be installed so they do not bind or restrict the finished flooring from moving when expansion and contraction occurs during seasonal changes. Fasten the trim to the wall not to the subfloor. Do not drive fasteners into the floor or underlayment.

Seal all areas that may be exposed to surface spills, i.e. tubs, toilet and showers with a silicone caulking. Restrict to light traffic for the first 24 hours.

SOTTO REPAIRS:

Repairs are very simple. To replace a damaged piece of flooring follow the below procedures:

- Warm the plank with a heat gun.
- Using a sharp utility knife cut through a corner of the damaged plank taking care not to cut the adjacent planks and the subfloor below.
- Lift the end of the plank with a putty knife and continue heating.
- As you provide sufficient heat, the plank will release from the adhesive.
- Lift out the entire piece and warm the exposed adhesive.
- Install the new plank roll with a hand roller to seal all edges.
- The repair is complete.

DuraCeramic® *Featuring*

Installation Accessories

Congoleum DuraCeramic installation accessories have been developed to provide the best system available to ensure a quality installation for your customers. Contact your Congoleum distributor for more information.

DS100 DuraSet® Adhesive

DuraSet Adhesive is the <u>only</u> adhesive that can be used with DuraCeramic, DuraCeramic Dimensions and Ovations.

Order Code: DS100

Description: DS100 is a high strength, solvent free, low odor, pressure-sensitive adhesive that provides high, aggressive initial tack and exceptional bond strength. A properly notched, trowel blade adapter is included with each pail of adhesive.

Use: Use Congoleum DS100 DuraSet Adhesive for all approved floor and wall applications. Set tiles into tacky dry adhesive for floor applications. Mortar, mastic or other adhesives are not recommended. DS100 can also be used for installing other Congoleum dry back tile products. It is not recommended for use with solid vinyl tile, rubber tile or resilient sheet products.

Advantages: Moisture and alkali resistant, high initial tack, exceptional bond strength, solvent free and low odor.

Coverage: Approximately 200 to 250 sq. ft. per gallon with required trowel size, (1/16" wide x 1/32" deep x 1/32" apart).

Working Times: Floors: 12 hours. Dry to tack - 45 to 60 minutes under normal conditions. **Walls:** 10 to 20 minutes. Dry to tack - 20 to 30 minutes.

Color: Pale blue, turns clear when dry.

Size: 1 quart (12/ctn.); 1 gallon (4/ctn.); 4 gallon

Tracers: Dark Red

Clean Up: Use water for wet adhesive and mineral spirits for dry adhesive. **CAUTION:** Mineral spirits is flammable. Read and follow label instructions.

Shelf Life: One year if original container is not opened.

Protect from Freezing: Freeze/Thaw stable up to 5 cycles. Store at room temperature.

Nonflammable / Noncombustible

CAUTION: POTENTIAL SKIN AND EYE IRRITANT

Congoleum UnderFlor®

UnderFlor is the all-in-one underlayment system for floating installations of Congoleum DuraCeramic, DuraCeramic Dimensions, Ovations and Endurance.

- UF120 – Available in 6 ft. wide rolls – 180 ft. long (120 sq. yds. or 1,080 sq. ft.)
- UFB07 – Convenient job-pack sized 6 ft. wide roll – 16.7 ft. long (11.11 sq. yds. or 100 sq. ft.)

Please refer to the DuraCeramic Installation Guide for complete installation instructions.

DuraCeramic Installation Accessory Kit

DuraCeramic Accessory Kit contains the recommended materials for grouting your DuraCeramic and Ovations floor properly.

Order Code: DD-01

Kit Contents: 1 yellow square-edged sponge, (2) 3M® white nylon scrubbing pads

Please refer to the DuraCeramic Installation Guide for complete installation instructions.

DS200™ DuraCeramic Joint Sealer

DuraCeramic Joint Sealer is designed to keep surface water and dirt from penetrating ungrouted joints.

DS200

- DS200 is a high strength, flexible, water-based acrylic sealer.
- Optional for sealing joints in ungrouted DuraCeramic floors.
- Approximately 320 square feet of tile with a 1/16" wide bead.

- Use water for wet sealer and household ammonia and water with a 3M® white nylon pad.
- White, turns clear when dry. (Approximately 8 hours)
- 8 ounce bottle (12/ctn.)
- One year if original container is not opened.
- Freeze/Thaw stable up to 5 cycles.
- Store at room temperature.
  POTENTIAL SKIN AND EYE IRRITANT

DuraCeramic Premixed Grout

DuraCeramic Premixed Grout is the <u>only</u> grout that can be used with DuraCeramic and Ovations.

Order Code: Use specific color code

Description: Premixed, sanded acrylic grout

Use: For use with Congoleum DuraCeramic flooring in grouting joints 1/16" to 1/4" in width.

Can also be used for grouting most ceramic, quarry and porcelain floor tile.

Advantages:

- Premixed - Ready to Use, Easy Application
- Flexible - Resists Cracking
- Color Consistent - No Shading
- Stain Resistant - Easy Care
- Color Variety - Popular, Versatile Colors Available
- Easy Clean Up

Limitations: Not for nonvitreous tiles or natural stones. Not for exterior, shower floors, or underwater use.

Working Time: 10 minutes

Set-Up Time: 16 to 24 hours

Clean Up: Follow label instructions. Do not use grout haze removers or solvents.

Size: 1 quart (6/ctn.); 1 gallon (4/ctn.)

Shelf Life: Two years if original container is not opened.

Protect from Freezing: Freeze/Thaw stable up to 5 cycles. Store at room temperature.

Nonflammable/Noncombustible

WARNING: POTENTIAL SKIN, EYE AND RESPIRATORY IRRITANT.

Grout Coverage

Joint Width	Approximate Coverage	
	16" x 16" Tile 14" x 14" Tile	
1/16" (1.6mm)	110 sq. ft./qt. (10m²)	450 sq. ft./gal. (42m²)
1/8" (3.2mm)	80 sq. ft./qt. (7.4m²)	325 sq. ft./gal. (31m²)
3/16" (4.8mm)	70 sq. ft./qt. (6.5m²)	275 sq. ft./gal. (26m²)
1/4" (6.4mm)	55 sq. ft./qt. (5m²)	225 sq. ft./gal. (21m²)

Congoleum Grout Colors

- **DG49** Light Almond
- **DG14** Biscuit
- **DG15** Bone
- **DG35** Navajo Brown
- **DG44** Pale Umber
- **DG06** Harvest
- **DG39** Ivory
- **DG02** Pewter
- **DG05** Chamois
- **DG42** Mocha
- **DG07** Chocolate
- **DG04** Bahama Beige
- **DG11** Sahara Beige
- **DG09** Gray
- **DG47** Charcoal

Congoleum®
www.congoleum.com

2015 UNDER**flor**®

Installation and Product Specification Guide

UNDER**flor**®

The all-in-one underlayment system for Floating Installations of Congoleum DuraCeramic®, DuraCeramic Dimensions®, Ovations®, Impact, Endurance® and Sotto™

Here's why Congoleum UnderFlor is perfect for your next installation.

Congoleum UnderFlor provides:

- A floating system for installations over:
  - Plywood
  - Oriented Strand Board (OSB)
  - Particle Board
  - Concrete
  - Gypsum Toppings
  - Existing Floors
    - Resilient
    - Hardwood
  - Old Adhesive Residue and Paint
- An economical alternative to costly underlayments
- A time-saving installation system, no down time, no special tools

Order Codes:

UF120 - Available in 6' wide rolls – 180 ft. long (120 sq. yds. or 1,080 sq. ft.)

UFB07 - Convenient job-pack sized 6' wide roll – 16.7 ft. long (11.11 sq. yds. or 100 sq. ft.)

TIPS FOR A SUCCESSFUL INSTALLATION

Recommended Use

- Residential applications on all grade levels
- Interior use in dry, heated areas

Subfloor and Preparation

All subfloors should be clean, smooth and dry.

Install over:

- Double layer wood construction over joists or trusses on up to 19.2" on center
- Single layer APA rated Sturd-I-Floor T&G Panels, minimum 23/32" over joists or trusses up to 19.2" on center
- APA underlayment grade plywood
- Oriented strand board (OSB)
- NPA rated particleboard
- On, above and below grade concrete
- Gypsum topping and lightweight concrete
- Single layer, fully adhered resilient flooring
- Old adhesive residue and paint

General Information

All Congoleum UnderFlor underlayment and finished flooring must be installed with a 1/8" to 1/4" space around the perimeter of the room to allow for expansion and contraction.

UnderFlor Installation

- Install Congoleum UnderFlor with the vinyl (shiny) side down just prior to installation (Fig. 1).
- Congoleum UnderFlor must be positioned in the room with seams at least 4" away from joints in the finished flooring.
- Unroll the first sheet and trim to fit allowing 1/8" to 1/4" space between the edge of the sheet and the wall (Fig. 2). Unroll the second sheet and position it with the seam edge butted lightly up to the first sheet.
- To secure sheets, we recommend 2" wide clear, thin packaging tape (Fig. 3). Apply the single faced tape on the surface, centered over the seam.
- Install floor using the recommended adhesive following recommended installation instructions (Fig. 4).

Trim and Molding

All finish trim and transition moldings must be installed so that they do not bind or restrict the finished flooring from moving when expansion and contractions occurs during seasonal changes. For detailed installation instructions on Congoleum UnderFlor, please visit www.congoleum.com.

Fig. 1. Unroll with vinyl side down.

Fig. 2. Cut leaving 1/8" to 1/4" space at perimeter.

Fig. 3. Butt edges and apply clear, thin packaging tape.

Fig. 4. Apply adhesive and install product.

ZōN™ WIDE WIDTH SOLID VINYL FLOORING

RESIDENTIAL INSTALLATION RECOMMENDATIONS

ZōN is manufactured by a state of the art extrusion process that provides brilliant thru-colors in a 10' wide solid vinyl sheet. The surface texture features raised designs that provide a unique dimensional pattern that compliments many commercial and residential applications. The base is re-enforced with a strong fiber mesh for true sizing and added toughness to withstand commercial foot traffic, large diameter castors even cars in unheated residential garages.

Please refer to ZōN Commercial Installation Recommendations for all commercial applications

Installation System	Application	Adhesive/Tape	Seams
Fully Adhesive	Residential, enclosed, interior applications over all approved subfloors and surfaces	AS-01 Adhesive	Overlap and Double Cut, seal all seams with SU80 or SU92 Seam Sealer
Perimeter Fastened	Residential, enclosed, interior applications over concrete subfloors, concrete subfloors covered with approved flooring and residential garages	AS-01 Adhesive or QS 120 QuikStik Tape – Seams and room perimeter	
Modified Loose Lay	Residential, enclosed, interior applications over concrete subfloors and concrete subfloors covered with approved flooring. Trim must be installed around the entire perimeter of the room	AS-01 Adhesive or QS 120 QuikStik Tape – Seams and Doorways	

GENERAL INFORMATION

Recommended Applications

• ZōN installed in residential applications must be sealed with a one step cleaner/protector like Mop & Glo® to guard against soil retention and staining from various reagents. This initial maintenance step should be performed prior to receiving regular traffic.

• Refer to the section on Garage Installation for special instructions when installing ZōN in garages and enclosed, un-heated areas.

• Do not install ZōN in exterior areas, on walkways or ramps, in showers, on walls or in areas with sloped floor drains.

Recommended Installation Accessories

• **AS-01 Adhesive** – For fully adhered applications over porous and non-porous surfaces, for securing the seams and perimeter on loose lay and perimeter fastened floors.

• **Congoleum QS120 QuikStik Tape** – Seams and doorways on loose lay applications and seams and the perimeter on perimeter fastened applications including garages.

• **SU80 or SU92 Seam Sealer** – Sealing all chemical welded seams Note: The TO70 Applicator Kit will be required when using SU92 Seam Sealer.

• **ZōN .080" (2mm) Color Matching Reducer** – For Garage entrance and other transitions to a flat surface; available in 10' length

Storage and Handling

• Always store and transport ZōN rolled face out, wrapped tightly around a rigid core.

• Store on a flat surface with continuous supports to avoid distortions.

• Do not unroll flooring until ready for installation. Once unrolled, install within 4 hours

• While ZōN is very flexible, it should never be folded or creased during storage, transporting or installation.

• Compression marks from the raised pattern may be visible on the sheet when the flooring is unrolled. This is normal and will recover.

Installation Temperature and Site Conditions

Condition the room(s) and all flooring materials at a constant temperature between 65F (18C) and 85F (29C) for at least 48 hours before during, and 48 hours after installation. Thereafter maintain temperatures between 55F (13C) and 100F (38C).

Exception – Unheated garages, enclosed breezeways and other unheated enclosed areas on concrete must be between 55F (13C) and 100F (38C) during installation. Installation outside these temperatures is not recommended.

SUBFLOORS AND PREPARATION

For detailed information on subfloors and preparation, please refer to supporting document Suitable Substrates at **www.congoleum.com.** Certain requirements may apply in order to prepare these substrates for resilient flooring. Substrates covered with approved existing flooring may be acceptable for residential applications.

ZōN can be installed over the following subfloors and surfaces

• Fully cured, dry concrete on all grade levels (Moisture vapor emissions should not exceed 3 lbs. (ASTM F1869) or 75% RH (ASTM F2170) with a pH range between 5 and 9).

- Approved suspended, double layer wood floors and underlayments
- Cement-based self-leveling underlayments and patching compounds
- Prepared ceramic tile, marble and cement terrazzo
- Radiant-heated subfloors where the maximum surface temperature of the floor does not exceed 85F (29ºC) in any area.
- Existing inlaid resilient sheet flooring-single layer, fully adhered and well bonded
- Existing vinyl composition tile (VCT) - single layer, well bonded over on or above grade level only
- Existing cushioned vinyl floors with felt backing-single layer, fully adhered and well bonded; prepare with embossing leveler

Do not install ZōN over strip wood floors, particleboard, oriented strand board (OSB), hardboard, cork or other acoustical underlayments, heavy cushioned floors, cushioned backed floors, floating floors of any type including wood, laminate, luxury vinyl tile or plank (LVT) or self adhering tile.

The subfloor, regardless of the type, must be flat, smooth, clean, dry, structurally sound and free of paint, old adhesive residue, wax, grease, oil, solvent, curing and parting compounds and other substances that could interfere with adhesion or the performance of the flooring. *Never use liquid adhesive remover or solvent cleaners for removing old adhesive residue or other substances on the subfloor.* These substances must be mechanically removed.

Ensure that concrete subfloors are sufficiently dry by conducting moisture and pH tests.

Conduct bond tests to confirm suitable adhesion to the substrate. Do not install flooring over expansion joints. Deviations in the subfloor should not exceed 3/16" in 10' or 1/16" in 1'. Grind high spots and fill all low areas with a portland cement, latex modified patching compound or self-leveling underlayment.

Wood floors must be double layer construction with an approved underlayment with joists or trusses spaced 16" (41cm) or 19.2" (49cm) on center. Subfloor deflection should not exceed 1/360th of the span. Set nails or fasteners 1/32" (.8mm) below the surface; sand joints smooth and fill with a portland cement, latex modified patching compound in accordance with underlayment manufacturer's recommendations.

Note: *Some previously manufactured vinyl floor covering and asphalt "cutback" adhesive contain asbestos. For preparation or removal of these products, refer to the Resilient Floor Covering Institutes publication "Recommended Work Practices for the Removal of Resilient Floor Covering.* These work practices must be followed. For a copy of the recommended work practices, please contact:

Resilient Floor Covering Institute (RFCI)

401 East Jefferson Street
Suite 102
Rockville, MD 20850

Warning: Do not sand, dry sweep, dry scrape, drill, saw, beadblast or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphaltic "cutback" adhesive or other adhesive. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of the material. If you must remove old flooring material contact the Resilient Floor Covering Institute to obtain a copy of the Recommended Work Practices for the Removal of Resilient Floor Covering.

INSTALLATION PROCEDURES

Modified Loose Lay Method

The modified loose lay method is recommended for use in residential applications over concrete subfloors and concrete subfloors covered with approved flooring in rooms up to 400 sq. ft. (37.2 m²). The entire perimeter must be covered with trim. Flooring that is installed by the modified loose lay method must be properly protected against distortions prior to installation. Always roll flooring with the face out, wrapped tightly around a rigid core. Do not install distorted flooring by the modified loose lay method.

- Unroll flooring over the prepared subfloor
- Position it squarely in the room and relieve inside and outside corners so the flooring lays flat. Use a push broom to remove trapped air under the floor. Start in the center of the room and work out toward the edges.
- Trim the floor allowing a 1/16" to 1/8" (1.6mm - 3.2mm) space around the entire perimeter and at vertical objects. At doorways, undercut the door trim and fit the flooring 1/4" (6.4mm) long so it slides under the trim.
- Use Congoleum QS120 QuikStik Tape or AS-01 Adhesive to secure the flooring at net fit areas, i.e. bath tub, shower-base or finished doors where trim can not be installed. Never fit flooring tight as it will result in a buckle. Turn the edge of the floor back and either apply a 4" (10.2 cm) band of adhesive with a 1/4" (6.4mm) nap paint roller following label instructions or place a strip of QS 120 QuikStik Tape on the floor and directly against the vertical surface. Roll the tape with a steel hand roller and remove the release liner. Lay the floor back into place and push any fullness out toward the edges. Roll the floor into the tape with the steel hand roller. Use a high quality acrylic caulking and seal the edge of the sheet at all net fit and wet areas.
- Install trim around the entire perimeter. Do not place trim tightly against the floor or nail into the floor when installing trim.

Flooring that is installed by the modified loose lay method can be seamed. Refer to seaming instructions for the Modified Loose Lay Method below.

Perimeter Fastened Method

The perimeter fastened method is recommended for use in residential applications over concrete subfloors or concrete subfloors covered with approved flooring. Either QS 120 QuikStik Tape or AS-01 Adhesive can be used for fastening the perimeter. The entire perimeter must be covered with trim. Flooring that is installed by the perimeter fastened method must be properly protected against distortions prior to installation. Always roll flooring with the face out, wrapped tightly around a rigid core. Do not install flooring that is distorted by the perimeter fastening method.

• When using QuikStik Tape to secure the perimeter, lay the tape into place and roll it with a steel hand roller before laying the flooring out. Leave the release liner on the tape.

• Unroll flooring and position it squarely in the room. Relieve inside and outside corners so the flooring lays flat. Use a push broom to remove trapped air under the floor. Start in the center of the room and work out toward the edges.

• Trim the floor allowing a 1/16" to 1/8" (1.6mm - 3.2mm) space around the perimeter where trim will be installed. ZōN can be fit net when perimeter installed in areas where no trim will be installed. Never fit flooring tight as it will result in a buckle. At doorways undercut the door trim and fit the flooring long so it slides under the trim at least 1/4" (6.4mm).

• After fitting the floor to the room and allowing all distortions to flatten secure the perimeter with QuikStik Tape or AS-01 Adhesive.

 - **QuikStik Tape –** If using QuikStik tape turn one edge of the flooring back at a time and remove the release liner. Immediately lay the flooring into the tape and carefully push any fullness out toward the wall. Roll the flooring into the tape with a steel hand roller.

 - **AS-01 Adhesive** – Turn back one edge of the sheet and apply a 4" (10.2cm) band of adhesive with a 1/4" (6.4mm) nap paint roller. Allow the adhesive to dry to a tack before re-setting the flooring. Push any fullness out toward the perimeter of the room and roll the sheet into the adhesive with a steel hand roller.Repeat the process along each wall to secure the entire perimeter of the room.

• Install trim around the entire perimeter. Finish and seal all net fit areas and wet areas with a thin bead of acrylic caulking.

Flooring that is installed by the perimeter fastened method can be seamed. Refer to seaming instructions for the Perimeter Fastened Method below.

Fully Adhered Method

The fully adhered method is recommended for use in residential applications over all approved subfloors. Always roll flooring with the face out, wrapped tightly around a rigid core. Install flooring with in 4 hours after unrolling.

Adhesive	AS-01 Pressure Sensitive Adhesive
Service Rating	Residential Applications
Substrate	All Approved Substrates
Applicator	Apply with a 1/16" x 1/32" x 1/32" (1.6 x .8 x .8mm) notched trowel, then back roll with a 1/4" (6.4mm) nap paint roller
Spread Rate	200 to 250 ft.²/gal (18.6 m² - 23.2 m²)
Dry/Flash Time	Approximately 20 to 30 minutes or until dry to the touch
Working Time	30 minutes after dry to touch
Restrictions	Restrict from traffic for the first 24 hours, open to light traffic for the next 24 hours

• Unroll flooring and position it squarely in the room. Relieve inside and outside corners so the flooring lays flat.

• Trim the floor allowing a 1/16" (1.6mm) space around the perimeter where trim will be installed. ZōN can be fit net in areas where no trim will be installed. Never fit flooring tight as it will result in a buckle. At doorways undercut the door trim and fit the flooring long so it slides under the trim at least 1/4" (6.4mm).

• To adhere the floor, lap or tube one-half of the floor back on itself to expose the subfloor. Apply adhesive with a 1/16" x 1/32" x 1/32" (1.6 x .8 x .8mm) "U" notched trowel. Apply adhesive in sections and then back roll the adhesive while wet with a 1/4" (6.4mm) nap paint roller to flatten all trowel ridges. Failure to back roll adhesive could result in trowel notch show through. Allow adhesive to dry to a tack approximately 20 to 30 minutes or until tacky dry to the touch prior to setting flooring in to it.

After completing the first half of the room repeat the process to complete the second half. Roll the entire floor immediately in both directions with a 100 (45.4 kg) pound, three section, steel roller. When seams are required allow a 24" (61 cm) wide dry zone at the seam.

SEAMING
Modified Loose Lay Method

Pattern	Specification	Length Direction Match	Cross Direction
Diamond	Do Not Reverse Sheets	12" (30.5cm)	12" (30.5cm)
Honeycomb	Do Not Reverse Sheets	24" (61cm)	24" (61cm)
Geometric	Do Not Reverse Sheets	24" (61cm)	24" (61cm)

SEAM PLACEMENT

Place seams in the least conspicuous and least traveled areas in the room when ever possible. Place seams at least 6" (15.2 cm) away from wood underlayment joints and seams in old sheet flooring.

When installing over tile, place the seam in the center of a row of tile.

CUTTING THE SEAM

ZōN is seamed by the overlap and double cut method only (other methods are not recommended and will not produce a satisfactory seam). All seams must be cut in the flat, continuous seam lanes in straight lines only (curve or circular cuts are not possible due to the raised design elements).

Install the first sheet leaving a 12" (30cm) dry zone at the seam edge. Unroll the second sheet and match the pattern starting from the center of the room and working out toward the edges.

Install the second sheet leaving a 12" (30cm) dry zone at the seam edge.

Place a 3" (7.6cm) wide piece of scrap flooring face down under the seam.

Cut the seam in the center of the seaming lane using a sharp utility knife and a steel straight edge. Hold the knife at a 90º angle to the floor and cut the seam in a single pass.

Turn the seam edges back and remove the scrap and trimmed selvage edges.

ADHESIVE APPLICATION

Loose Lay and Perimeter Fastened Floors – Secure the seam edges with AS-01 Adhesive or QS 120 QuikStik Tape.

AS-01 Adhesive – Apply a 6" (15.2cm) band of AS-01 Adhesive with a 1/4" (6.4mm) nap paint roller, centered under the seam. Allow the adhesive to dry to a tack and then re-set the seam edges. Roll the seam with a steel hand roller. Remove any adhesive smears from the surface of the flooring with a clean cloth dampened with mineral spirits. Caution, mineral spirits is flammable, read and follow all cautionary information on the container label.

QS 120 QuikStik Tape – Position a strip of tape centered under the seam. Roll the tape with a steel hand roller. Remove the release liner and re-set the seam edges. Roll the seam with a steel hand roller.

Fully Adhered Floors – Apply the adhesive in the dry zone up to the adhesive line. Do not overlap the adhesive. Allow the adhesive to dry to a tack before re-setting the seam edges. Immediately roll the seam with a 100 pound (45.4 kg), three section roller, then level the edges with a steel hand roller.

SEALING SEAMS

All seams must be sealed by the end of the day with SU80 or SU92 Seam Sealer. Shake the seam sealer in the original container to mix the flatting additive. Pour the seam sealer into the plastic squeeze bottle and secure the applicator nozzle. Allow bubbles to dissipate (about 5 to 10 minutes).

Insert the slotted fin of the nozzle into one end of the seam cut and apply light constant hand pressure on the applicator bottle to control the flow. Move slowly with as few interruptions as possible and apply a bead of seam sealer approximately 1/8" (3.2mm) wide centered over the seam. Accidental spills should be blotted immediately from the surface. Keep traffic off sealed seam for at least 8 hours.

FINISHING THE JOB

- Clean any adhesive smears on the face of the flooring immediately while wet with a clean cloth and dilute solution of neutral cleaner and water. Mineral spirits can be used to remove dried adhesive.
- Keep traffic off the newly installed floor for at least 24 hours after installation. Open to light traffic for the next 24 hours. Resume normal traffic thereafter.
- Protect the floor from rolling or static loads for at least 48 hours after installation to allow adhesive to cure.
- Always use strips of hardwood or plywood when moving heavy objects such as furniture or equipment over the floor, even when using carts or dollies with wheels.
- Protect the floor against ground in dirt and debris on installations where initial maintenance can not be performed prior to exposure to traffic or in active construction sites. Use un-dyed Kraft paper to cover the floor until the initial maintenance is performed.

Special Installation Instructions for: Garages and Enclosed, Unheated Rooms

ZōN can be installed in unheated garages, enclosed breezeways and similar enclosed areas. The 10' width is ideal for most garages and normally one sheet per bay is all that is needed. Customers should understand that installation in garages and unheated enclosed rooms will require specific care to prevent tracked in water and liquid spills from being a slip hazard. Vinyl flooring is slippery when wet. Use non-staining walk off mats in the walk ways and wipe up water and spills immediately to ensure a safe walking area. Vinyl flooring can stain from rubber tires and various reagents often stored in garages and outdoor sheds. Use small carpet samples or Congoleum Stain Guard under tires to prevent staining and store all chemicals and fertilizers on protective liners. Clean up oil leaks, antifreeze and other spills on the surface immediately.

MATERIALS NEEDED

- QS 120 QuikStik Tape (one roll of tape will cover a two car garage)
- .080" x 10' ZōN Reducer per garage door
- Loctite PL Premium Polyurethane Construction Adhesive (available at home centers)
- Congoleum SU80 Seam Sealer (Required for seams)
- Portland cement-based patching compound – optional

GENERAL INFORMATION

ZōN installs best at temperatures between 65F (18C) and 85F (29C), but can be installed in temperatures as low as 55F (13C) in enclosed, un-heated areas.

Place flooring in the garage or enclosed room and allow it to adjust to the temperature for 24 hours before installation. Keep it rolled tightly on a rigid tube with the face out until ready for installation. Once unrolled it must be installed with in 4 hours provided all distortions are flat.

PREPARATION

The subfloor must be smooth, clean and dry prior to flooring installation.

Clear items from the garage or enclosed room. Scrape loose paint and debris from the concrete. Clean heavily soiled

concrete floors with an extra strength cleaner like Simple Green® or Spic and Span® and a stiff bristle brush, then rinse and allow it to dry completely. This is particularly important in the areas where tape will be applied to secure the floor. Tape will not stick to damp or dusty surfaces.

For a smoother looking floor, scrape or grind sharp ridges and fill chips and cracks with a cement patching compound. Do not fill concrete expansion joints.

Oil and other stains on the concrete should be completely removed in the seam areas and along the edges where tape or adhesive will be applied. Oil stains and other spills on the subfloor that will be in the un-adhered portion of the sheet can be covered with aluminum foil. Use masking tape to secure the edges of the foil.

Vacuum or sweep the floor thoroughly, making sure all grit is removed.

ENCLOSED UNHEATED AREAS

Follow instructions for Garage Floor Installation where applicable.

GARAGE FLOOR INSTALLATION

Follow instructions for Garage Floor Installation where applicable.

Floor Layout

For the best appearance, whenever possible, lay the flooring with the seams centered between each garage bay. Do not place seams in or across the tire path.

INSTALLING THE FLOOR

Note: Before installing the floor, determine the best location for the ZōN Reducer at the garage entrance. If the garage door rests on the same level as the floor, place the reducer up to the inside of the garage door. Mark the front edge of the reducer with a pencil.

If the garage door rests on the apron below the level of the floor place the ZōN Reducer on the flat surface and mark the front edge of the reducer with a pencil. The reducer should be installed after the floor is installed.

• Place a strip of QuikStik tape around the entire perimeter of the garage or enclosed room and roll it with a steel hand roller. Leave the release liner on the tape.

• Lay the first sheet in place with the factory edges positioned approximately 1/16" away from the wall. Use care to avoid folding or creasing the flooring.

• Use a push broom to flatten any distortions and remove trapped air from under the sheet. Start in the center of the room and work out toward the edges in both directions

• Trim the flooring to fit the walls allowing a 1/16" (1.6mm) to 1/8" (3.2mm) gap

• The floor at the garage entrance should be cut in a straight line 1" (2.5cm) away from the pencil line where the reducer will be placed.

• To secure the flooring turn back one edge at a time and remove the release liner from the tape and lay the flooring back in to place forcing any fullness out toward the wall. Roll the flooring into the tape with the steel hand roller.

• Use Loctite® PL Premium® Polyurethane Construction Adhesive to secure the reducer and the flooring at the garage entrance. Apply a 3/8" (9.5mm) bead of adhesive on the subfloor where the reducer will be positioned.

Use a fine notched trowel or notched putty knife to spread the adhesive up to the pencil line and at least 1" under the edge of the sheet. Lay the flooring and reducer in to the adhesive and roll it with a steel hand roller. Secure the reducer with masking tape if necessary to hold it in place until adhesive sets up.

MULTIPLE CAR GARAGE (for 2 or more cars)

When installing more than one sheet it will be necessary to seam the floor. Refer to the seaming instructions for Loose Lay and Perimeter Fastened Floors using QS 120 QuikStik Tape under the seam. All seams must be sealed with SU80 or SU92 Seam Sealer.

CARE INSTRUCTIONS

• Do not drive on the floor or disturb the reducer for at least 24 hours after installation.

• 48 hours after installation and prior to service the floor should be cleaned with two coats of a one step cleaner like Mop & Glo® (available at most home centers and grocery stores). Follow label instructions for application and drying time.

• Various items that are common in the garage can permanently mark or stain vinyl flooring. These items include but are not limited to, rubber tires, rubber backed mats, antifreeze, oil, gas and other petroleum products, fertilizer and rust. To reduce the potential for staining clean up all liquid spills immediately. Congoleum Stain Guard which is available for purchase by contacting 1877floorguy.com or by calling 1(877) 356-6748 and can be applied to the floor in the areas where tires are commonly in contact with the floor to prevent stain. Small carpet samples can also be used under tires to protect the floor from tire staining

• Use strips of hardboard and dollies to move heavy objects on the floor. Do not slide sharp or heavy equipment over the floor.

• Sweep the floor as needed to remove loose dirt and grit

• Never turn the steering wheel while the car is stationary

• Never drive vehicles with studded tires or chains on the floor

• Caution wet floors are slippery.

 - Use non-staining walk off mats at the entrance to prevent tracked in water

 - Clean up liquid spills immediately to prevent a slip hazard.

Trademark Listings

Bright 'n Easy, Congoleum and ZōN are registered trademarks of Congoleum Corporation AS-01, AD-62, SU80, SU92 are trademarks of Congoleum Corporation

ZōN, GEOMETRIC Red

ZōN™
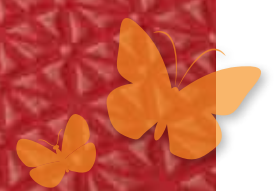
WIDE WIDTH SOLID VINYL FLOORING

COMMERCIAL INSTALLATION RECOMMENDATIONS

ZōN is manufactured by a state-of-the-art extrusion process that provides brilliant thru-colors in a 10' wide solid vinyl sheet. The surface textures feature raised designs that provide a unique dimensional pattern that compliments many commercial and residential applications. The base is re-enforced with a strong fiber mesh for true sizing and added toughness to withstand commercial foot traffic, large diameter castors, even cars in unheated residential garages.

Please refer to ZōN Residential Installation Recommendations for all residential applications.

Installation System	Application	Adhesive	Seams
Fully Adhesive	Commercial	AS-01 Release Adhesive OR AD-62	Chemical Weld or Heat Weld*

*AD-62 Adhesive must be used when heat welding seams

GENERAL INFORMATION

Proper Recommended Applications

• ZōN must be maintained using floor polish to protect against soil retention and stain from various reagents. Commercial walk off mats will be required for added protection at check out registers and other areas where concentrated or pivotal traffic is expected to prevent excess wear.

• Do not install ZōN in food preparation areas, commercial kitchens, on ramps, in showers, on walls or in areas with sloped floor drains.

Recommended Installation Accessories

• **AS-01 Adhesive** – Fully adhered applications over porous and non-porous surfaces where heavy static or rolling loads are not expected. AS-01 is a pressure sensitive adhesive for use over all recommended surfaces.

• **AD-62 Wet-Set Adhesive** – Fully adhered applications over porous substrates. AD-62 Adhesive must be used in commercial applications where heavy rolling loads are expected and/or heat welding is required.

• SU80 or SU92 Seam Sealer-Sealing all chemical welded seams. Note: The TO70 Applicator Kit will be required when using SU92 Seam Sealer.

• ZōN 4mm Color Matching Welding Rod - For heat welded seams.

• ZōN .080" (2mm) Color Matching Reducer - For transitions to a flat surface; available in 10' length.

Storage and Handling

• Always store and transport ZōN rolled face out, wrapped tightly around a rigid core.

• Store on a flat surface with continuous supports to avoid distortions.

• Long term storage temperatures range between 55°F and 90°F (13°C and 32°C).

• Do not unroll flooring until ready for installation. Once unrolled, install within 4 hours.

• While ZōN is very flexible it should never be folded or creased during storage, transporting or installation.

• Compression marks from the raised pattern may be visible on the sheet when the flooring is unrolled. This is normal and will recover.

Installation Temperature and Site Conditions

• Condition the room(s) and all flooring materials at a constant temperature between 65°F and 85°F (18°C and 29°C) for at least 48 hours before, during, and 48 hours after installation. Thereafter maintain temperatures between 55°F and 100°F (13°C and 38°C).

• HVAC systems must be in operation for at least 10 days prior to flooring installation and thereafter to maintain a constant temperature. Portable heaters may not provide adequate heat. Never use kerosene heaters.

• Resilient flooring installation should be scheduled after all other trades have completed their work.

• ZōN must be protected against ground in dirt and debris until initial maintenance is performed. If maintenance is delayed, cover the floor with an un-dyed Kraft Paper.

SUBFLOORS AND PREPARATION

For detailed information on subfloors and preparation, please refer to supporting document Suitable Substrates at www.congoleum.com. Certain requirements may apply in order to prepare these substrates for resilient flooring. Substrates covered with approved existing flooring may also be acceptable for residential and light commercial applications.

ZōN can be installed over the following subfloors and surfaces depending on the intended service application.

Commercial and Light Commercial Applications

• Fully cured, dry concrete on all grade levels (Moisture vapor emissions should not exceed 3 pounds (ASTM F1869) or 75% RH (ASTM F2170) with a pH range between 5 and 9.

• Approved suspended, double layer wood floors and underlayments.

• Cement-based self-leveling underlayments and patching compounds.

• Prepared ceramic tile, marble and cement terrazzo.

• Aluminum, steel and stainless steel.

• Radiant-heated subfloors where the maximum surface temperature of the floor does not exceed 85F (29ºC) in any area.

Light Commercial Applications

- Existing inlaid resilient sheet flooring single layer, fully adhered and well bonded.
- Existing vinyl composition tile (VCT) – single layer, well bonded over, on or above grade level only.

Do not install ZōN over strip wood floors, particleboard, oriented strand board (OSB), hardboard, cork or other acoustical underlayments, cushioned floors, cushioned backed floors, floating floors of any type including wood, laminate or luxury vinyl tile or plank (LVT) or self adhering tile.

The subfloor, regardless of the type must meet all applicable building codes, be flat, smooth, clean, dry, structurally sound and free of paint, old adhesive residue, wax, grease, oil, solvent, curing and parting compounds and other substances that could interfere with adhesion or the performance of the flooring. *Never use liquid adhesive remover or solvent cleaners for removing old adhesive residue or other substances on the subfloor.* These substances must be mechanically removed.

Ensure that concrete subfloors are sufficiently dry by conducting moisture and pH tests.

Conduct bond tests to confirm suitable adhesion to the substrate. Do not install flooring over expansion joints. Deviations in the subfloor should not exceed 3/16" in 10' or 1/16" in 1'.

Grind high spots and fill all low areas with a Portland cement, latex modified patching compound or self-leveling underlayment.

Wood floors must be double layer construction with an approved underlayment with joists or trusses spaced 16" (41cm) or 19.2" (49cm) on center. Subfloor deflection should not exceed 1/360th of the span. Set nails or fasteners 1/32" (.8mm) below the surface; sand joints smooth and fill with a Portland cement, latex modified patching compound in accordance with underlayment manufacturers recommendations.

Note: *Some previously manufactured vinyl floor covering and asphalt "cutback" adhesive contain asbestos. For preparation or removal of these products, refer to the Resilient Floor Covering Institutes publication "Recommended Work Practices for the Removal of Resilient Floor Covering.*

These work practices must be followed. For a copy of the recommended work practices, please contact:

Resilient Floor Covering Institute (RFCI)
115 Broad Street
Suite 201
La Grange, GA 30204

Fully Adhered Method

The fully adhered method is recommended for use in all commercial and light commercial applications over all approved subfloors. All commercial and light commercial applications must be fully adhered with Congoleum AS-01 or AD-62 Adhesive. The adhesive selection will depend on the subfloor type, porosity and intended service.

Always roll flooring with the face out, wrapped tightly around a rigid core. Install flooring within 4 hours after unrolling.

Unroll flooring and position it squarely in the room. Relieve inside and outside corners so the flooring lays flat.

Trim the floor allowing a 1/16" (1.6mm) space around the perimeter where trim will be installed. ZōN can be fit net in areas where no trim will be installed. Never fit flooring tight as it will result in a buckle. At doorways undercut the door trim and fit the flooring long so it slides under the trim at least 1/4" (6.4mm).

To adhere the floor, lap or tube one-half of the floor back on itself to expose the subfloor. Apply the recommended adhesive following the instructions below. After completing the first half of the room repeat the process to complete the second half. When seams are required allow a 24" (61cm) wide dry zone at the seam.

Warning: Do not sand, dry sweep, dry scrape, drill, saw, beadblast or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphaltic "cutback" adhesive or other adhesive. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of the material. If you must remove old flooring material contact the Resilient Floor Covering Institute to obtain a copy of the Recommended Work Practices for the Removal of Resilient Floor Covering.

INSTALLATION PROCEDURE

Adhesive	AS-01 Pressure Sensitive Adhesive	AD-62 Wet Set Adhesive
Service Rating	Light Commercial and Commercial Applications*	Commercial and Light Commercial Applications
Substrate	All Approved Substrates	Approved Porous Substrates
Applicator/ Trowel Notch	1/16" x 1/32" x 1/32" U-notch (.16 x .08 x .08 cm)	1/16" x 1/32" x 1/32" U-notch (1.6 x .8 x .8mm)
Special Instructions	Back roll adhesive with a 1/4" (6.4mm) nap paint roller after applying with a trowel	Back roll adhesive with a 1/4" (6.4mm) nap paint roller after applying with a trowel)
Spread Rate	200- 250 ft.²/gal (18.6 m² - 23.2 m²)	185-245 ft.²/ gal (17.2 m² - 22.8m²)
Dry/ Flash Time	Approximately 20 to 30 minutes or until dry to the touch	0-10 minutes
Working Time	30 minutes after dry to tack	Up to 20 minutes
Restrictions	Restrict from traffic for the first 24 hours, open to light traffic for the next 48 hours	Restrict from traffic for the first 24 hours, open to light traffic for the next 72 hours

* Where heavy static or rolling loads are not expected

Note: Adhesive flash time and working time may vary based on temperature, humidity, substrate porosity, trowel application and jobsite conditions.

Congoleum AS-01 Adhesive is a pressure sensitive adhesive, recommended for use over all approved porous and non-porous subfloor surfaces. Use AD-62 in commercial applications where heavy static or rolling loads are expected or where heat welding is required.

• Apply adhesive with a 1/16" x 1/32" x 1/32" (1.6 x .8 x .8mm) "U" notched trowel. Apply adhesive in sections and then back roll the adhesive while wet with a 1/4" (6.4mm) nap paint roller to flatten all trowel ridges. Failure to back roll adhesive could result in trowel notch show through. Allow the adhesive to dry to a tack approximately 20 to 30 minutes or until tacky dry to the touch prior to setting flooring into it. Roll the floor immediately in both directions with a 100 pound (45.4 kg), three section roller.

Congoleum AD-62 Adhesive is a wet setting adhesive designed for commercial applications where heavy static or rolling loads are expected over porous subfloors only.

• Porous Substrates (Concrete, wood underlayment and patching and leveling compounds) – Apply adhesive with a 1/16" x 1/32" x 1/32" (1.6 x .8 x .8mm) "U" notched trowel and then back roll the adhesive with a 1/4" (6.4mm) nap paint roller. Before installing flooring allow adhesive to dry/flash for 3 to 10 minutes. The flooring must be laid into wet adhesive to achieve 100% transfer of the adhesive to the back of the flooring when rolled. Roll the floor immediately in both directions with a 100 pound (45.4kg), three section roller.

• Clean any adhesive smears on the face of the flooring immediately with a clean wet cloth before it dries. Dry adhesive can be removed with mineral spirits. Caution mineral spirits is flammable. Read and follow all cautionary information on the label.

SEAMING FULLY ADHERED FLOORING

ZōN seams can be chemically welded or heat welded. Floors that are heat welded must be installed with AD-62 Adhesive. The adhesive must cure for at least 48 hours before heat welding the seams.

SEAM PLACEMENT

Seam Specifications

Pattern	Specification	Length Direction Match	Cross Direction
Diamond	Do Not Reverse Sheets	12" (30.5cm)	12" (30.5cm)
Honeycomb	Do Not Reverse Sheets	24" (61cm)	24" (61cm)
Geometric	Do Not Reverse Sheets	24" (61cm)	24" (61cm)

Place seams in the least conspicuous and least traveled areas in the room whenever possible.

Place seams at least 6" (15.2cm) away from wood underlayment joints and seams in old sheet flooring.

When installing over tile, place the seam in the center of a row of tile.

CUTTING THE SEAM

ZōN is seamed by the overlap and double cut method only (other methods are not recommended and will not produce a satisfactory seam). All seams must be cut in the flat, continuous seam lanes in straight lines only (curve or circular cuts are not possible due to the raised design elements).

Install the first sheet leaving a 12" (30.5cm) dry zone at the seam edge.

Unroll the second sheet and match the pattern starting from the center of the room and working out toward the edges.

Install the second sheet again leaving a 12" (30.5cm) dry zone at the seam edge.

Place a 3" (7.6cm) wide piece of scrap flooring face down under the seam.

Cut the seam in the center of the seaming lane using a sharp utility knife and a steel straight edge. Hold the knife at a 90º angle to the floor and cut the seam in a single pass.

Turn the seam edges back and remove the scrap and selvage edges.

Spread the selected adhesive in the dry zone up to the adhesive line. Do not overlap the adhesive. Remember to apply the adhesive with a trowel and back roll with a 1/4" (6.4mm) nap paint roller to flatten adhesive ridges. When using AS-01 allow the adhesive to dry to a tack after back rolling and before re-setting the seam edges. When using AD-62 Adhesive allow the adhesive to flash off for a few minutes after back rolling and before re-setting the seam edges. Place the seam edges into the adhesive using care to avoid getting adhesive into the seam cut. If this occurs lift the seam edges and remove the adhesive with a clean damp cloth then reposition the seam edges. Immediately roll the seam with a 100 pound (45.4kg), three section roller, then level the edges with a steel hand roller.

CHEMICAL WELDING SEAMS

All seams must be sealed by the end of the day with SU80 or SU92 Seam Sealer.

Shake the seam sealer in the original container to mix the flatting additive.

Pour the seam sealer into the plastic squeeze bottle and secure the applicator nozzle.

Allow bubbles to dissipate (about 5 to 10 minutes).

Insert the slotted fin of the nozzle into one end of the seam cut and apply light constant hand pressure on the applicator bottle to control the flow. Move slowly with as few interruptions as possible and apply a bead of seam sealer approximately 1/8" (3.2mm) wide centered over the seam. Keep traffic off sealed seam for at least 24 hours.

HEAT WELDING SEAMS

In addition to chemical welding, seams in ZōN can also be heat welded with ZōN matching welding rod. *Heat welding should only be done by an experienced, professional installer.* Heat welded floors must be installed with AD-62 Adhesive. Adhesive must be allowed to dry for a minimum of 48 hours prior to heat welding.

Cut the seam(s) by the recess scribe method with a 1/64" (0.4mm) gap to provide a track for grooving or routing out the seam. Use a recess scriber with a sharp pin to mark the seam cut.

Allow the adhesive to set up for 48 hours before heat welding.

After the adhesive has set, groove out the seam using a power router or hand grooving tool. Adjust the grooving tool to cut a "U" shaped groove 3mm wide, extending two-thirds into the flooring thickness.

Use a heat welding gun equipped with a standard 5mm, round, speed nozzle or welding nozzle with integrated welding rod roller. Pre-heat the welding gun to 350°C to 500°C (662°F to 932°F). The temperature will vary depending on the welding speed.

CAUTION

Heat welding equipment operates at high temperatures and can cause severe burns. Handle equipment carefully and use safety precautions to protect yourself and others on the job site. Keep away from combustible, flammable, and explosive substances. Use adequate ventilation when heat welding. Avoid breathing fumes. Refer to the tool manufacturer's operating manual for additional precautions.

Check the heat setting using a scrap piece of ZōN. A small ridge will form on the sides of the welding rod along the groove when properly welded. A low temperature setting, or moving too fast will result in a weak bond. A high temperature setting or moving too slowly can scorch the seam edges.

Position the welding rod along the seam so that it does not interfere with the welding procedure.

Starting at one end of the seam, insert the welding rod into the nozzle and force it into the seam groove. Move slowly at a constant speed applying sufficient heat to properly weld the seam. As you approach the end of the seam, it will be necessary to stop and change direction. To prepare the joint, cut a tapered groove from the bottom of the rod to the top (will be about 3/8" or 9.5mm long). Then complete the weld from the wall to the rod in place, starting at the wall and extending to the tapered groove. Overlap the groove and the welding rod in place to join them together.

To finish the seam, remove excess welding rod while warm (not hot) with a sharp spatula knife and spatula guide or trim plate. Allow the welding rod to completely cool, then trim the seam weld again with a narrow trim knife that is made for sports floors with raised design elements. The narrow trim knife is available through: 1877floorguy.com or by calling (877) 356-6748 (Slim Trim Knife order #WDD-645) or Sinclair at (800) 624-2408 (Small Welding Rod/ Trimming Knife order # 11-580).

NOTE: If welding rod is not allowed to cool before final trimming, shrinkage can result in a concave joint. Always use a sharp trimming knife held on a slight angle to produce a smooth finished joint.

FINISHING THE JOB

• Clean any adhesive smears on the face of the flooring immediately while wet with a clean cloth and dilute solution of neutral cleaner and water. Mineral spirits can be used to remove dried adhesive.

• Keep traffic off the newly installed floor for at least 24 hours after installation. Open to light traffic for the next 48 to 72 hours depending on the adhesive used. Resume normal traffic thereafter.

• Protect the floor from rolling or static loads for at least 72 hours after installation to allow adhesive to set firm.

• Always use strips of hardwood or plywood when moving heavy objects such as furniture or equipment over the floor even when using carts or dollies with wheels.

• It is very important to protect the floor against ground in dirt and debris on installations where initial maintenance cannot be performed prior to exposure to traffic or in active construction sites. Use un-dyed Kraft paper to cover the floor until the initial maintenance is performed.

Trademark Listings

Bright 'n Easy, Congoleum and ZōN are registered trademarks of Congoleum Corporation AS-01, AD-62, SU80, SU92 are trademarks of Congoleum Corporation

Congoleum®

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2015 Consumer Flooring Guide
Maintenance and Warranty Information

Congoleum®
www.congoleum.com

Caring for Your Floor

Immediately After Installation

- Keep traffic to a minimum during the first 24 hours to allow the adhesive to harden. Then open to light foot traffic only for the next 24 hours. Resume normal traffic after 48 hours.
- Protect and do not disturb the sealed seams on your resilient sheet flooring for at least 16 hours after seam sealer application to ensure a proper seam bond.
- Furniture should not be placed on the floor for 24 hours so the adhesive (and grout, if applicable), have adequate time to dry.
- Always move heavy furniture and appliances with care to avoid gouging or tearing the floor. First, lay strips of plywood or hardboard panels on the floor. Then roll, "walk" or slide these items on the strips. Do not push or pull appliances and heavy furniture without taking these precautions.
- Wash your floor using Congoleum Bright 'N Easy No-Rinse Cleaner or other suitable floor cleaner 48 hours after installation.

  Caution: Resilient flooring, like other types of smooth floors, can become slippery when wet. Allow time for the floor to dry after washing. Immediately wipe up wet areas from spills or wet feet. Place mats at outside entrances to prevent water, snow or ice from being tracked onto your floor. Improper polishes or finishes can cause the floor to become slippery.

- Immediately after the installation of Endurance SmartLink:
  - Keep the room temperature between 65°F and 85°F for at least 48 hours after installation. Maintain the room temperature between 55°F and 85°F thereafter.
  - Do not wash or scrub Endurance SmartLink flooring for at least 5 days after installation. This allows the adhesive bond to develop by preventing moisture and cleaning agents from interfering with the bonding process. Spot cleaning is acceptable, but do not apply excess moisture or cleaning solution.

Preventative Care

- Make sure furniture legs have large surface, nonstaining floor protectors. Replace small, narrow metal or dome-shaped glides with smooth, flat glides, that are flat on the floor. Glides should be equipped with self-adhesive felt pads to avoid scratching the surface of the floor. The pads should be checked periodically for grit and wear and replaced when necessary.
- Heavy furniture or appliances should be equipped with flat, nonstaining composition furniture casters or cups of appropriate size - available square from 1 1/2" to 2 5/8" and round from 1 3/8" to 1 5/8".
- Moveable appliances and furniture should be equipped with easily swiveling casters. They should be at least 2" in diameter with nonstaining hard rubber treads with a minimum 3/4" flat surface width. Do not use ball-shaped casters.
- Place mats at outside entrances to prevent dirt, grit and soil from being tracked onto your floor. Use 100% latex-backed mats (labeled nonstaining), because some rubber-backed mats or carpets may permanently discolor your floor.
- To help prevent staining from asphalt tracking, we recommend the use of a latex-based driveway sealer.
- Draw drapes and blinds during peak periods of strong sunlight. Flooring, like other home furnishing products, may discolor or fade when over-exposed to the sun.
- Heat-producing appliances such as a refrigerator or range, or hot air registers emitting a direct flow of heat in excess of 120° F, even intermittently, can scorch, burn, discolor or fade your floor. Cigarettes, matches and other very hot objects can also damage your floor.
- Avoid wearing stiletto or spiked heels on your floor. These types of heels can indent or damage many types of floors.
- **DO NOT USE STEAM CLEANERS** on Congoleum Floors, they can permanently damage the floor.

Regular Care (all products)

- Sweep or vacuum regularly to remove dirt and grit that can abrade, dull or scratch your floor. Do not use a vacuum with a beater brush, because it may damage the floor's surface.
- Wipe up spills promptly with a damp cloth or mop.
- For a more thorough cleaning, wash your floor with Congoleum Bright 'N Easy No-Rinse Cleaner or other suitable, non-detergent based resilient floor cleaner.

  Caution: Avoid one-step "mop and polish" products, dishwashing liquids and oil-based cleaners. These may leave a residue which can attract dirt and dull your floor's finish. Avoid cleaners that contain abrasives or solvents which may permanently damage your floor.

- Remove excess water after washing the floor.
- A copolymer or acrylic grout sealer compatible with acrylic grouts may be used on DuraCeramic Grout. Do not use a penetrating silicone sealer on the grout.
- The gloss level may change over time depending on the amount of traffic, care, and maintenance the floor receives. To restore the appearance, first use Congoleum Bright 'N Easy Polish Remover to remove any ground-in dirt and excess polish buildup. Rinse thoroughly. Then apply Congoleum Bright 'N Easy Floor Polish (03002) to obtain a high-gloss finish or Congoleum Bright 'N Easy Satin-Gloss Floor Polish (03007) to obtain a satin-gloss or natural-gloss finish. Do not apply polish to Ultima®, DuraCeramic® Origins, DuraCeramic Dimensions®, AirStep Vibe®, AirStep Advantage®, AirStep Evolution®, AirStep Plus®, ArmorCore UR or ArmorCore Pro UR.

Care for ZōN, Alternatives, Choices and CX Series

These products **require** a polish to seal and protect the color and design. A minimum of two coats of polish for residential use and three to five coats for commercial use is required. There are special care and maintenance procedures for ZōN. Please refer to the Congoleum website at www.congoleum.com for specific maintenance information for ZōN.

Initial Residential Maintenance

After the floor has been installed and the adhesive has dried (48 hours), initial maintenance **MUST BE** performed on your Alternatives, Choices or CX Series floor. If these instructions are not followed, permanent staining may occur.

- Sweep or vacuum the floor to remove loose dirt.
- If needed, after installation use lighter fluid applied with a clean cloth to remove scuff marks and adhesive residue. Keep traffic off treated area for 30 minutes.

  Caution: Lighter fluid is a flammable solvent. Carefully read and follow cautionary information on label.

- Wash the floor with Congoleum Bright 'N Easy No-Rinse Cleaner or other suitable resilient floor cleaner. Be sure it is thoroughly dry before applying polish.
- Apply a minimum of two coats of Congoleum Bright 'N Easy Floor Polish to seal and protect the floor.

Regular Maintenance

- Follow the general maintenance tips.
- Apply additional coats of polish as needed.

Periodic Maintenance

- Periodically, it will be necessary to remove polish buildup. Use Congoleum Bright 'N Easy Polish Remover, following label instructions. Rinse well and allow to dry before re-applying polish.
- Each time the polish is stripped, apply a minimum of two coats of Congoleum Bright 'N Easy Floor Polish to reseal and protect the floor.

How to Treat Stains, Spills and Scuffs

Follow the remedies in order. Unless instructed otherwise, use a clean, white cloth or towel with the recommended liquids. Always rinse the affected area with clean water after treatment.

Stains and Spills

Acids, Alkalis	Dye, Dye Markings	Iodine, Mercurochrome
Blood	Food, Candy	Rust†
Ketchup, Mustard	Fruit and Fruit Juices	Urine, Excrement
Cleaners, Strong Soaps	Grass	Vomit

Remedy
- Scrub area with Congoleum Bright 'N Easy No-Rinse Cleaner full strength.
- Rub the area with a 10 to 1 dilution of water to liquid bleach.
- Rub the area with isopropyl alcohol*.
† If rust stain does not respond, use lemon juice or a cream of tartar solution.

Paint and Solvent Spills

Dry Cleaning Fluids	Nail Polish	Wood Stains
Lacquer	Solvents	Varnish
Latex Paints	Oil-Based Paints	

Remedy
- If substance is dry, gently peel it from the floor. (Avoid sharp instruments that could scratch the floor.)
- Scrub area with Congoleum Bright 'N Easy No-Rinse Cleaner.
- Rub lightly with mineral spirits or paint thinner*.

Substances That Won't Wipe Up

Adhesives	Oil	Candle Wax
Asphalt	Grease	Tar
Chewing Gum		

Remedy
- Carefully remove excess with a dull kitchen knife.
- Scrub area with Congoleum Bright 'N Easy No-Rinse Cleaner.
- Rub lightly with mineral spirits, isopropyl alcohol* or lighter fluid*.

Scuffs and Smudges

Rubber Heel Marks	Scuffs
Shoe Polish	Smudges

Remedy
- Scrub area with Congoleum Bright 'N Easy No-Rinse Cleaner.
- Rub lightly with isopropyl alcohol* or lighter fluid*.

Caution: Isopropyl alcohol, lighter fluid, mineral spirits and paint thinner are flammable solvents. Carefully read and follow cautionary information on label. Keep traffic off treated area for 30 minutes.*

Congoleum Products Warranty Summary

This is an abbreviated warranty summary, please find complete specific warranties for each product on our website **www.congoleum.com.**

DURACERAMIC

RESIDENTIAL LIMITED WARRANTY

Products	DuraCeramic Origins	DuraCeramic Dimensions
Coverage	**W A R R A N T Y**	**P E R I O D**
• will not wear through	Lifetime	Lifetime
• will be free of manufacturing defects	Lifetime	Lifetime
• will not stain	Lifetime	Lifetime
• will not change gloss level	Lifetime	Lifetime
• will not rip, tear, scratch, cut, chip or break	Lifetime	Lifetime

ADDITIONAL SCOTCHGARD™ PROTECTOR LIMITED WARRANTY

Coverage	W A R R A N T Y	P E R I O D
• will be easy to clean	15 Years	15 Years
• will repel dirt and grime	15 Years	15 Years

Labor coverage - 5 years if labor paid for when original floor was installed.

LIGHT COMMERCIAL LIMITED WARRANTY

Coverage	W A R R A N T Y	P E R I O D
• will be free of manufacturing defects	5 Years	5 Years
• will not discolor from mold, mildew or alkali	5 Years	5 Years

Labor coverage - if labor paid for when original floor was installed: Year 1 – 100%, Years 2-3 – 50%, Year 4+ – No labor.

OVATIONS

Product	Ovations
Coverage	W A R R A N T Y P E R I O D
• will not wear through	20 Years
• will be free of manufacturing defects	20 Years
• will not stain	20 Years
• will not fade	20 Years

Labor coverage - 5 years if labor paid for when original floor was installed.

VINYL COMPOSITION TILE
RESIDENTIAL LIMITED WARRANTY

Products	Alternatives	Choices	CX Series
Coverage	W A R R A N T Y P E R I O D		
• will not wear through	10 Years	10 Years	10 Years
• will be free of manufacturing defects	10 Years	10 Years	10 Years
• will not discolor from mold, mildew or alkali	5 Years	5 Years	5 Years

Labor coverage - 5 years if labor paid for when original floor was installed.

COMMERCIAL LIMITED WARRANTY

Coverage	W A R R A N T Y P E R I O D		
• will be free of manufacturing defects	5 Years	5 Years	5 Years
• will not discolor from mold, mildew or alkali	5 Years	5 Years	5 Years

Labor coverage - if labor paid for when original floor was installed: Year 1 – 100%, Years 2-3 – 50%, Year 4+ – No labor.

TIMELESS
RESIDENTIAL LIMITED WARRANTY

Products	Structure	Impact & Impact SmartLock	Endurance & Endurance SmartLink
Coverage	W A R R A N T Y P E R I O D		
• will not wear through	Lifetime	25 Years	10 Years
• will be free of manufacturing defects	Lifetime	25 Years	10 Years
• will not stain	Lifetime	25 Years	10 Years
• will not fade	Lifetime	25 Years	10 Years
• will not rip or tear	Lifetime	25 Years	10 Years
• will not permanently indent when proper floor protectors are used	Lifetime	25 Years	10 Years

Labor coverage - 5 years if labor paid for when original floor was installed.

COMMERCIAL LIMITED WARRANTY   LIGHT COMMERCIAL LIMITED WARRANTY

Products	Structure	Impact & Impact SmartLock	Endurance & Endurance SmartLink
Coverage	W A R R A N T Y P E R I O D		
• will be free of manufacturing defects	5 Years	7 Years	5 Years
• will not discolor from mold, mildew or alkali	5 Years	7 Years	5 Years

Labor coverage - if labor paid for when original floor was installed: Year 1 – 100%, Years 2-3 – 50%, Year 4+ – No labor.

AIRSTEP

RESIDENTIAL LIMITED WARRANTY

Products	AirStep Advantage	AirStep Vibe	AirStep Evolution	AirStep Plus	AirStep Basix
Coverage	W A R	R A N	T Y	P E R	I O D
• will not wear through	Lifetime	Lifetime	50 Years	20 Years	10 Years
• will be free of manufacturing defects	Lifetime	Lifetime	50 Years	20 Years	10 Years
• will not stain including stains from asphalt tracking, rubber-backed mats and common household items	Lifetime	Lifetime	50 Years	20 Years	10 Years
• will not permanently scuff from shoe soles including sneakers	Lifetime	Lifetime	50 Years	20 Years	10 Years
• will not fade or discolor from heat or sunlight	Lifetime	Lifetime	50 Years	20 Years	10 Years
• will not discolor from mold, mildew or alkali	Lifetime	Lifetime	50 Years	20 Years	10 Years
• will not gouge, rip or tear from normal use	Lifetime	Lifetime	50 Years	20 Years	10 Years
• will not permanently indent when proper floor protectors are used	Lifetime	Lifetime	50 Years	20 Years	10 Years

ADDITIONAL SCOTCHGARD™ PROTECTOR LIMITED WARRANTY

	AirStep Advantage	AirStep Vibe	AirStep Evolution	AirStep Plus	AirStep Basix
• will be easy to clean	15 Years	15 Years	15 Years	15 Years	NA
• will repel dirt and grime	15 Years	15 Years	15 Years	15 Years	NA

Correct installation practices must be followed to ensure a trouble-free installation. While installation errors are the responsibility of your flooring installer and not covered by Congoleum's warranty. If the flooring is correctly installed following all guidelines in the AirStep Installation Instructions, your floors will be warranted as follows:

	AirStep Advantage	AirStep Vibe	AirStep Evolution	AirStep Plus	AirStep Basix
1. Not to curl	20 Years	20 Years	20 Years	20 Years	10 Years
2. Not to open at seams	20 Years	20 Years	20 Years	20 Years	10 Years
3. Not to buckle	20 Years	20 Years	20 Years	20 Years	10 Years
4. Not to release over joints in underlayment panels	20 Years	20 Years	20 Years	20 Years	10 Years

The conditions 1,2,3 and 4 above will be warranted as long as the flooring is installed in an occupied residence that maintains a temperature range of 55°F to 100°F. Any of the above conditions will not be covered if caused by job site environmental conditions in new construction or renovation work.

Labor coverage - If labor paid for when original floor was installed:
AirStep Advantage, AirStep Vibe, AirStep Evolution, AirStep Plus - 5 years if labor paid for when original floor was installed.
AirStep Basix: Year 1 – 100%, Years 3-5 – 50%, Year 6+ – No labor.

LIGHT COMMERCIAL LIMITED WARRANTY

Product	AirStep Vibe
Coverage	W A R R A N T Y P E R I O D
• will be free of manufacturing defects	5 Years
• will not discolor from mold, mildew or alkali	5 Years

Labor coverage - if labor paid for when original floor was installed: Year 1 – 100%, Years 2-3 – 50%, Year 4+ – No labor.

ULTIMA

RESIDENTIAL LIMITED WARRANTY

Product	Ultima
Coverage	W A R R A N T Y P E R I O D
• will not wear through	50 Years
• will be free of manufacturing defects	50 Years
• will not stain including stains from asphalt tracking, rubber-backed mats and common household items	50 Years
• will not permanently scuff from shoe soles including sneakers	50 Years
• will not will not fade or discolor from heat or sunlight	50 Years
• will not discolor from mold mildew or alkali	50 Years
• will not gouge, rip or tear from normal use	50 Years
• will not permanently indent when proper floor protectors are used	50 Years

ADDITIONAL SCOTCHGARD™ PROTECTOR LIMITED WARRANTY

	Ultima
• will be easy to clean	15 Years
• will repel dirt and grime	15 Years

Labor coverage - 5 years if labor paid for when original floor was installed.

PRELUDE

Product	Prelude
Coverage	**W A R R A N T Y P E R I O D**
• will not wear through	5 Years
• will be free of manufacturing defects	5 Years
• will not stain from asphalt tracking	5 Years
• will not gouge, rip or tear from normal use	5 Years
• will not discolor from mold mildew or alkali	5 Years

Labor coverage - 1-3 years at 100% if labor paid for when original floor was installed; no labor after 3 years.

ZōN

Product	ZōN
Coverage	**W A R R A N T Y P E R I O D**
• will not wear through	10 Years
• will be free of manufacturing defects	10 Years
• will not discolor from mold mildew or alkali	5 Years

Labor coverage - 5 years if labor paid for when original floor was installed.

Coverage	W A R R A N T Y P E R I O D
• will be free of manufacturing defects	5 Years
• will not discolor from mold, mildew or alkali	5 Years

Labor coverage - if labor paid for when original floor was installed: Year 1 – 100%, Years 2-3 – 50%, Year 4+ – No labor.

ARMORCORE

Products	ArmorCore Pro UR	ArmorCore UR	ArmorCore Pro	ArmorCore
Coverage	**W A R R A N T Y**		**P E R I O D**	
• will not wear out	10 Years	10 Years	5 Years	5 Years
• will be free of manufacturing defects	10 Years	10 Years	5 Years	5 Years
• will not stain from asphalt tracking	10 Years	10 Years	5 Years	5 Years
• will not gouge, rip or tear from normal use	10 Years	10 Years	5 Years	5 Years
• will not indent when proper floor protectors are used	10 Years	10 Years	5 Years	5 Years
• will not discolor from mold, mildew or alkali	10 Years	10 Years	5 Years	5 Years
• will not stain, including stains from rubber-backed mats and common household items	10 Years	10 Years	—	—
• will not permanently scuff from shoe soles including sneakers	10 Years	10 Years	—	—
• will not fade or discolor from heat or sunlight	10 Years	10 Years	—	—
• will be easy to clean and repel dirt and grime	10 Years	10 Years	—	—
• will not curl, open at seams, buckle, release in joints over underlayment panels	10 Years	—	5 Years	—

Labor coverage

ArmorCore & ArmorCore Pro - 1-3 years at 100% if labor paid for when original floor was installed; no labor after 3 years.

ArmorCore UR & ArmorCore Pro UR - 1-3 years at 100% if labor paid for when original floor was installed; 50% labor for 4-5 years; no labor after 5 years.

ZōN™

WIDE WIDTH SOLID VINYL FLOORING

RESIDENTIAL CARE AND MAINTENANCE SPECIFICATIONS

NEWLY INSTALLED FLOORS

- Allow adhesive to dry a minimum of 2 days before performing initial maintenance, wetting or washing the new floor.

- ZōN must be maintained in residential sites with a one step cleaner/protector like Mop and Glo® or a high quality acrylic floor finish like Congoleum Bright 'N Easy High Gloss Floor Polish to protect the floor against ground in dirt and stains. Refer to the instructions below for each maintenance system.

- Use a clean cloth dampened with mineral spirits to remove adhesive smears or scuffs on the surface. Caution: Mineral spirits and other solvents are flammable. Carefully read and follow cautionary information on label.

Safety Information

CAUTION: Wet floors are slippery. Water, other liquids and foreign matter on the surface of the floor can cause it to be slippery and should be removed immediately. Improper waxes and finishes can also cause slipperiness. Whenever washing, waxing or stripping floors, traffic should be excluded from the area due to the possibility of slipping. The use of walk-off mats at entrances will reduce tracked-in water.

One Step Cleaner/Protector Maintenance System

- Sweep or vacuum the floor to remove all loose dirt and grit.

- If necessary clean the floor with a neutral floor cleaner and a brush to remove stubborn or ground-in dirt. Rinse the floor thoroughly and allow it to dry completely.

- Apply at least 2 applications of one step cleaner/protector like Mop & Glo®, following label instructions.

- Thereafter, clean the floor as needed by alternating between a neutral cleaner like Congoleum Bright 'N Easy No-Rinse Cleaner and the one step cleaner/protector.

- **Note:** Repeated use of a one step cleaner/protector can eventually result in build up and discoloration of the protective film. Refer to label instructions for removal. Immediately after removal of the old film, re-apply at least 2 applications of a one step cleaner/protector.

MAINTAINING RESIDENTIAL FLOORS WITH FLOOR POLISH

Initial Maintenance

- Sweep or vacuum the floor to remove all loose dirt and grit.

- If necessary clean the floor with a neutral floor cleaner and a brush to remove stubborn or ground-in dirt. Rinse the floor thoroughly and allow it to dry completely.

- Apply at least 1 application of one step cleaner/protector like Mop & Glo® following label instructions. Allow to dry. Then apply 2 to 3 coats of a high quality acrylic floor finish like Congoleum 3002 Bright 'N Easy High Gloss Floor Polish or 3007 Bright 'N Easy Satin Gloss Polish following label instructions.

Regular Maintenance

- Sweep, vacuum or dry mop the floor daily to remove loose dirt and grit.

- Damp-mop the floor as needed with a dilute solution of neutral cleaner like Congoleum 3001 Bright 'N Easy No-Rinse Cleaner. Use a soft bristle brush and a concentrated neutral cleaning solution to remove heavy soil. Rinse heavily soiled floors after scrubbing and allow to dry.

- Periodically it may be necessary to apply additional coats of polish. Clean the floor thoroughly and allow it to dry. Apply two additional coats of polish for best results.

Periodic Maintenance

Periodically, it will be necessary to remove polish to prevent buildup. Use rubber gloves to avoid skin contact with the polish remover and residual solution.

- Use a full strength polish remover like Congoleum Bright 'N Easy Floor Polish Remover to remove old polish build up following label instruction for use and safe handling.

- Work in small sections about 4'x 4'. Pour an appropriate amount of polish remover directly on the floor. Spread the solution over the area so that it is completely wet. Do not allow the solution to dry on the floor, if necessary re-apply more to keep it wet.

- Allow it to penetrate the polish for 5 minutes and then use a medium stiff scrub brush or deck brush to scrub the floor. Immediately remove the solution with a wet vacuum or mop. Then thoroughly rinse the floor before going to the next section. Complete each section following the above procedures to completely remove the old floor finish.
- When finished, rinse the entire floor with a clean mop and clean water and allow it to dry.
- Apply at least 1 application of one step cleaner/protector like Mop & Glo® following label instructions. Allow to dry. Then apply 2 to 3 coats of a high quality acrylic floor finish like Congoleum 3002 Bright 'N Easy High Gloss Floor Polish or 3007 Bright 'N Easy Satin Gloss Polish following label instructions.

Preventative Care

- Use care to protect the newly installed floor from rolling loads for the first 72 hours while adhesive is drying.
- Always use strips of hardwood or plywood when moving heavy objects such as furniture and equipment over the floor even when using carts or dollies with wheels.
- Heavy furniture or appliances should be equipped with flat, non-staining composition furniture casters or cups of appropriate size – available square from 1 1/2" to 2 5/8" and round from 1 3/8" to 1 5/8". Replace small, narrow metal or dome-shaped glides with smooth, flat glides that are flat on the floor.
- Moveable appliances and furniture should be equipped with easily swiveling casters. They should be at least 2" in diameter with non-staining hard rubber treads with a minimum 3/4" flat surface width. Do not use ball-shaped casters.
- Place mats at outside entrances to prevent dirt, grit and soil from being tracked onto your floor. Use 100% latex-backed mats (labeled non-staining), because some rubber-backed mats or carpets may permanently discolor your floor.

- To help prevent staining from asphalt tracking, we recommend the use of a latex-based driveway sealer.
- Draw drapes and blinds during peak periods of strong sunlight. Flooring, like other interior furnishing products, may discolor or fade when over-exposed to the sun.
- Heat-producing appliances and equipment such as a refrigerator or range, or hot air registers emitting a direct flow of heat in excess of 120° F, even intermittently, can scorch, burn, discolor or fade the floor. Cigarettes, matches and other very hot objects can also damage the floor.
- Some solutions contain chemicals that may permanently stain or damage flooring if not cleaned up immediately. Asphalt sealers used on driveways and parking lots, particularly those recently installed or resealed with coal tar sealer, can cause permanent staining in prominent traffic areas. Regular maintenance and floor mats placed at entryways will reduce or eliminate coal tar stains. Congoleum recommends the use of latex-emulsion sealers where possible.
- Never use steam cleaning machines; they can permanently damage the floor.

Safety Information

CAUTION: Wet floors are slippery. Water, other liquids and foreign matter on the surface of the floor can cause it to be slippery and should be removed immediately. Improper waxes and finishes can also cause slipperiness. Whenever washing, waxing or stripping floors, traffic should be excluded from the area due to the possibility of slipping. The use of walk-off mats at entrances will reduce tracked-in water.

Trademark Listings

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ZōN™

WIDE WIDTH SOLID VINYL FLOORING

COMMERCIAL CARE AND MAINTENANCE SPECIFICATIONS

ZōN is a solid vinyl commercial sheet flooring product with raised design elements. This uniquely textured surface must be maintained using floor polish to protect against soil retention and stain from various reagents. The maintenance specifications below provide an easy and economical system for preparing and maintaining the floor.

SAFETY INFORMATION

CAUTION: Wet floors are slippery. Water, other liquids and foreign matter on the surface of the floor can cause it to be slippery and should be removed immediately. Improper waxes and finishes can also cause slipperiness. Whenever washing, waxing or stripping floors, traffic should be excluded from the area due to the possibility of slipping and signage to warn against a slip hazard should be prominently placed. The use of walk-off mats at entrances will reduce tracked-in water.

> **WARNING:** An electric shock hazard exists when performing maintenance with a floor machine. Use a ground fault circuit interrupter for any electrical connection in a wet environment.

NEW FLOORS-IMMEDIATELY AFTER INSTALLATION

- Allow adhesive to dry a minimum of 4 days before performing initial maintenance, wetting or washing the new floor.

- It is very important to protect the floor against ground in dirt and debris on installations where initial maintenance can not be performed prior to exposure to traffic or in active construction sites. Use plain, un-dyed Kraft paper to cover the floor until the initial maintenance is performed.

- Use a clean cloth dampened with mineral spirits to remove adhesive smears or scuffs on the surface. Caution: Mineral spirits and other solvents are flammable. Carefully read and follow cautionary information on label.

INITIAL MAINTENANCE

ZōN must be thoroughly scrubbed with a floor machine, scrubbing brush and liquid stripping solution to properly prepare the floor for the initial polish application.

- Sweep or dry mop the floor to remove loose dirt and grit. Do not use sweeping compounds or oil treated mops.

- Scrub the floor with a 170 rpm floor machine equipped with a natural fiber, medium, grade scrubbing brush and a liquid stripping solution like Congoleum 5003C Bright' N Easy Commercial Polish Remover, following label instructions for dilution. Apply a liberal amount of solution with a mop and allow it to sit on the floor for a few minutes before scrubbing. Do not allow the solution to dry on the floor, re-wet if necessary. Do not use no-scrub or no rinse stripping solutions.

- While scrubbing move the floor machine back and forth in one direction and then back and forth in a perpendicular direction to get into the crevices.

- Use a wet/dry vacuum to remove the residual stripping solution before it dries.

- Rinse the floor thoroughly with a clean mop, changing water frequently. Allow to dry.

- Apply 3 to 5 coats of high quality acrylic floor polish like Congoleum 5002C Bright 'N Easy Commercial Polish following label instructions. Allow the polish to dry between coats.

> **WARNING:** An electric shock hazard exists. Use a ground fault circuit interrupter for any electrical connection in a wet environment.

REGULAR MAINTENANCE

- Sweep or dry mop the floor daily to remove loose dirt and grit. Do not use sweeping compounds or oil treated mops.

- Damp-mop the floor as needed with a dilute solution of neutral cleaner like Congoleum 5001C Commercial Bright 'N Easy No-Rinse Cleaner. To remove heavy soil use a slow speed floor machine up to 300 rpm, equipped with a soft, natural fiber scrubbing brush and a concentrated neutral cleaning solution. Rinse the floor after scrubbing and allow it to dry.

- Periodically it may be necessary to apply additional coats of polish. Clean the floor thoroughly and allow it to dry. Apply two additional coats of polish for best results.

- After a significant polish base has been applied (5 to 6 coats) the floor can be spray buffed to maintain the appearance of the polish. Use a floor machine up to 300 rpm equipped with a soft bonnet or lambs wool buffing pad. Use a spray buff solution at all times when buffing, do not dry buff. Never use nylon buffing pads on the floor.

PERIODIC MAINTENANCE

Periodically, it will be necessary to remove polish to prevent buildup.

- Scrub the floor with a 170 rpm floor machine equipped with a natural fiber, medium grade scrubbing brush and a liquid stripping solution like Congoleum 5003C Bright' N Easy Commercial Polish Remover, following label instructions for dilution. Apply a liberal amount of solution with a mop and allow it to sit on the floor for a few minutes before scrubbing. Do not allow the solution to dry on the floor; re-wet if necessary. Do not use no-scrub or no rinse stripping solutions.

- While scrubbing move the floor machine back and forth in one direction and then back and forth in a perpendicular direction to get into the crevices.

- Use a wet/dry vacuum to remove the residual stripping solution before it dries.

- Rinse the floor thoroughly with a clean mop, changing water frequently. Allow to dry.

- Re-apply 3 to 5 coats of high quality acrylic floor polish like Congoleum 5002C Bright 'N Easy Commercial Polish following label instructions. Allow the polish to dry between coats.

PREVENTATIVE CARE

- Use care to protect the newly installed floor from rolling loads for the first 72 hours while adhesive is drying.

- Always use strips of hardwood or plywood when moving heavy objects such as furniture and equipment over the floor even when using carts or dollies with wheels.

- Heavy furniture or appliances should be equipped with flat, non-staining composition furniture casters or cups of appropriate size – available square from 1 1/2" to 2 5/8" and round from 1 3/8" to 1 5/8". Replace small, narrow metal or dome-shaped glides with smooth, flat glides that are flat on the floor.

- Moveable appliances and furniture should be equipped with easily swiveling casters. They should be at least 2" in diameter with non-staining hard rubber treads with a minimum 3/4" flat surface width. Do not use ball-shaped casters.

- Place mats at outside entrances to prevent dirt, grit and soil from being tracked onto your floor. Use 100% latex-backed mats (labeled non-staining), because some rubber-backed mats or carpets may permanently discolor your floor.

- To help prevent staining from asphalt tracking, we recommend the use of a latex-based driveway sealer.

- Draw drapes and blinds during peak periods of strong sunlight. Flooring, like other interior furnishing products, may discolor or fade when over-exposed to the sun.

- Heat-producing appliances and equipment such as a refrigerator or range, or hot air registers emitting a direct flow of heat in excess of 120° F, even intermittently, can scorch, burn, discolor or fade the floor. Cigarettes, matches and other very hot objects can also damage the floor.

- Some solutions contain chemicals that may permanently stain or damage flooring if not cleaned up immediately. Asphalt sealers used on driveways and parking lots, particularly those recently installed or resealed with coal tar sealer, can cause permanent staining in prominent traffic areas. Regular maintenance and floor mats placed at entryways will reduce or eliminate coal tar stains. Congoleum recommends the use of latex-emulsion sealers where possible.

- Never use steam cleaning machines on Congoleum floors; they can permanently damage the floor.

SAFETY INFORMATION

CAUTION: Wet floors are slippery. Water, other liquids and foreign matter on the surface of the floor can cause it to be slippery and should be removed immediately. Improper waxes and finishes can also cause slipperiness. Whenever washing, waxing or stripping floors, traffic should be excluded from the area due to the possibility of slipping, and signage to warn against a slip hazard should be prominently placed. The use of walk-off mats at entrances will reduce tracked-in water.

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