



VOC Regulatory Compliance:



ISO 9001 CERTIFIED

TK-LIQUID BONDING AGENT 225

Item No. TK-225

PRODUCT DESCRIPTION

TK-LIQUID BONDING AGENT 225 is an acrylic latex liquid bonding agent with an admix (in place of water) for cement mortar patching and resurfacing. When mixed with a cement/sand or gravel combination, TK-LIQUID BONDING AGENT 225 becomes an effective patching and topping mortar.

Features:

- Excellent adhesion to a variety of substrates.
- Excellent resistance to abrasion, freeze/thaw cycles, chemicals and deicing salts.
- Retains flexibility, elongation and will not discolor with exposure to heat, cold or aging.
- Economical to use because of its high performance with low maintenance costs. Eliminates the need for further curing/sealing processes resulting in additional labor and material savings.
- Field and laboratory tests prove superior tensility, compressive strength, flexural shear bond, and impact strength over styrene-butadiene rubbers, polyvinyl acetates and unmodified mortar.

USES:

Suitable for use on many substrates including concrete, brick, masonry, terrazzo, wood, metal and glass.

- 1) Mortar Patching: Use for filling cracks, floor underlayment to level floors prior to tiling, precast building panels and beams, pavement and bridge deck repairs, pipe setting and spray and fill coats.
- 2) Bonding Agent: Use for bonding plaster, stucco, cement and slurry coats.
- 3) Admixture: Use for cement base plaster and stucco mixes and as a base coat to reduce cracking and improve curing.

APPLICATION PROCEDURES

PREPARATION:

Remove all loose and/or crumbled material from the area and sweep or air blow to remove as much dust as possible. Grease or oil stains should be removed with TK-CHEMICAL CLEANER 101* or a suitable cleaner. Rinse thoroughly and do not leave puddles of water on the surface.

MIXING:

Use only clean, dampened containers and clean, dry cement for the mix. Thoroughly pre-mix the sand/aggregate or gravel with the cement. Blend TK-LIQUID BONDING AGENT 225 into the mix, stirring slowly.

TECHNICAL DATA

Composition and Materials:	100% acrylic polymers in a water dispersion
Solids by Weight (%):	28%
Set Time:	4-6 hours with typical sand/cement mix
Average Dry Time (70°F): Normal Use Heavy Traffic	24-48 hours 4 days
Viscosity:	Slightly thicker than water
Pot Life:	1-2 hours
VOC Content:	< 350 g/l
A.I.M. Category:	Primers and Undercoaters Maximum VOC 350 g/l
Applicable Standards:	-ASTM C1059, Type II, Non-Redispersible -ASTM C190 -ASTM 109 -ASTM 348 -ASTM 321

Comparison of water-mixed mortar vs. TK-LIQUID BONDING AGENT 225

STRENGTH	WATER	TK-225
Tensile	235 psi	645 psi
Compressive	2390 psi	5715 psi
Flexural	610 psi	1585 psi
Impact	6 psi	16 psi
Abrasion Resistance	23.8%	1.15%*

* % weight loss; lower value = higher resistance

Typical Mix Ratios per 1-gallon of TK-LIQUID BONDING AGENT 225:

- 1 - 3 cement mix: 1-45lb. bag packaged sand mix
- Graded gravel mix: 1-80lb. bag packaged sand mix

Suggested Resurfacing Mixes per 1-gallon of TK-LIQUID BONDING AGENT 225:

Depth (Inches)	Sharp Masons Sand	Portland Cement
0" - 1/8"	20 lbs.	20 lbs.
1/8" - 3/8"	40 lbs.	20 lbs.
3/8" - 1"	60 lbs.	20 lbs.

APPLICATION:

Repair Work - When used as a bonding agent for patch repair or overlayment, saturate the area with TK-LIQUID BONDING AGENT 225 and place the mortar while the bonding agent is still in a