



# TECHNICAL DATA SHEET



## PL<sup>®</sup> 550 Tub Surround Construction Adhesive

**Description:** Loctite<sup>®</sup> PL<sup>®</sup> 550 Tub Surround Adhesive is specially formulated to bond most plastic bathroom and shower enclosures. It is unaffected by moisture, steam, water, heat or cold when fully cured. PL 550 Tub Surround Adhesive will not harm or burn-through tub kit materials if used as directed. Low VOC formulation meets stringent State and Federal requirements.

**Available As:**

Item #	Size	Package
1402263	10 fl oz (295 ml)	Paper Cartridge

**Features & Benefits:**

- No Etching/Burn-Through
- Bonds Surrounds to Unpainted Drywall & Wood
- 25 Minute Repositioning Time
- High Grab
- Low Odor, Easy Clean-Up
- Low VOC Formulation

**Recommended For:**

PL 550 can be used for bonding most bathtub and shower surrounds (polystyrene, ABS and FRP panels) to waterproof drywall/greenboard drywall, drywall, or wood. For best results, at least one surface should be porous.

**For Best Results:**

Not recommended for the following applications:

- Overlaps on multi-piece units
- Gluing plastic bathroom accessories, such as shelves and soap dishes, to tub surrounds or tile
- Repair or reinstallation of existing surround
- Use in temperatures below 50°F (10°C) or above 100°F (38°C)
- Bonding tub surrounds to another non-porous surface such as ceramic tiles or plastic panels
- Use on bowed or bent panels
- Bonding cement board (Durock<sup>®</sup>)

**Coverage:**

For a 10 fl. oz. (295 ml) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 30.6 ft. (9.3 m)
- A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m)

Note: Project requires approximately 3 to 4 tubes per tub kit.



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## Typical Uncured Physical Properties:

Color:	Cream	
Appearance:	Thick paste	
Base:	Water-based	
Odor:	Mild acrylic odor	
Specific Gravity:	1.44	
pH:	7.0 – 7.5	
Viscosity:	200,000 - 300,000 cps	
VOC Content:	<0.1% by weight	CARB
	<33.7 g/l	SCAQMD rule 1168
Shelf Life:	18 months from date of manufacture (unopened)	
Lot Code Explanation:	<b>YYDDD</b>	
Stamped on cartridge body	<b>YY=</b> Last two digits of year of manufacture <b>DDD=</b> Day of manufacture based on 365 days in a year Example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014	

## Typical Application Properties:

Application Temperature:	Apply and cure between 50°F (10°C) and 100°F (38°C)	
	For best results, use at 70°F (21°C)	
Open Time:	60 minutes* @ 78°F (25°C) and 50% R.H.	
Repositioning Time:	30 minutes* @ 78°F (25°C) and 50% R.H.	
Cure Time:	1 to 7 days* @ 78°F (25°C) and 50% R.H.	
	*Time is dependent on temperature, humidity, porosity of substrate and amount of adhesive applied	

## Typical Cured Performance Properties:

Color:	Cream
Cured Form:	Non-flammable, rubbery solid
Service Temperature:	20°F (-7°C) to 180°F (82°C)
Water Resistant:	Yes
Shear Strength	5 day cure
FRP to Wood:	200 psi (0.41 N/mm <sup>2</sup> )

## Directions:

### Tools Typically Required:

Utility knife, caulking gun, tool to puncture cartridge seal, masking tape, tape measure, level, square, pencil, drill, hole saw bit and coarse sandpaper.

### Safety Precautions:

Well-ventilated area, gloves.

### Preparation:

- 1) The temperature of the adhesive, the surfaces and the working area must be above 50°F (10°C).
- 2) Walls must be dry and free of dirt, waxes and soap or other residues. Remove all paint, wallpaper, or any loose materials. Unpainted, waterproof drywall is the best backing for tub and shower units. Concrete walls must be well cured, dry and free of any release agents.
- 3) Lay panels flat and allow them to come to room temperature (65°F to 75°F) for at least 24 hours before installing. Do not use bent or bowed panels. Make sure that corners are 90° from top to bottom.
- 4) Pre-fit all materials. Use the cardboard box that the tub kit came in as the template. Measure the spout and faucet placement onto the cardboard template and make the cut-outs. Position the cardboard in place on the wall and check for the correct cut-out placement. Transfer the markings on the tub panel. Make all the cuts in the tub panel using a hole saw bit in an electric drill. Drill a small starter hole. Make all the cuts from the face or front panel surface to the rear or backing surface. This will prevent chipping. Set each tub panel in place in the order suggested by the manufacturer. Limit stressing the tub unit into place, as this will weaken the material.



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- 5) Use masking tape to temporarily support the tub panels in place. Make sure the tops of all panels are levelled and all the pieces are aligned. Using a pencil, outline the tub panels in their correct position before gluing.
- 6) Place the PL 550 Tub Surround Adhesive in a caulking gun and cut the nozzle at a 45° to desired bead size. Puncture inner seal.

**Application:**

Apply the adhesive in a continuous vertical bead to the panel starting 1" (2.5 cm) in from the edge and continuing every 6" (15 cm) across the panel. Press the tub panel firmly to the wall within 10 minutes of applying the adhesive. Apply firm pressure across the entire panel surface to ensure good contact with adhesive. Some applications will require bracing to maintain contact while curing. For best results, support the edges with masking tape. After 20 minutes hand press over all the areas of installation again to ensure good contact. Connect seams of panels according to tub surround manufacture instructions. Seal the edges with caulking 24 hours after installation. When installing plumbing fixtures, do not allow plumber's putty to be used where it may touch the polystyrene tub surround material as it may cause damage. Allow 24 hour cure time before using the area.

**Clean-up:**

Clean tools and any uncured adhesive residue with warm soap and water. Cured adhesive may be carefully cut away with a sharp-edged tool.

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**Storage & Disposal:**

DAMAGED BY FREEZING. Store in a dry place at 70°F (21°C). Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

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**Label Precautions:**

**CAUTION!** Contains ethylene and crystalline silica. May cause eye, skin and respiratory irritation. Avoid contact with eyes and skin. Use with adequate ventilation. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes. For skin contact wash thoroughly with soap and water. If affected by vapors, get fresh air. **KEEP OUT OF REACH OF CHILDREN.**

**WARNING:** This product contains chemicals known to the State of California to cause cancer.

**Refer to Safety Data Sheet (SDS) for further information.**

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**Disclaimer:**

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.



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