LATAPOXY® Waterproof Flashing Mortar

DS-070.0-1115

**Globally Proven
Construction Solutions**

1. PRODUCT NAME
LATAPOXY® Waterproof Flashing Mortar

2. MANUFACTURER
LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

     Telephone: +1.203.393.0010, ext. 235
     Toll Free: 1.800.243.4788, ext. 235
     Fax: +1.203.393.1684
     Internet: **www.laticrete.com**

3. PRODUCT DESCRIPTION
LATAPOXY Waterproof Flashing Mortar is an epoxy-based membrane. It can be used to waterproof seams, gaps or joints between a variety of substrates including metal and PVC pipe penetrations or flashing. It is specifically designed to be used under ceramic tile, stone or brick for rapid installations which require a fast curing waterproof flashing mortar or membrane. LATAPOXY Waterproof Flashing Mortar is flexible, easy to apply and will allow for rapid installations.

Uses
- Flashing for plumbing fixtures and pipe penetrations
- Waterproof seams between flashing and facade building elements.
- Swimming pools, fountains, and water features
- Shower pans, stalls, tub surrounds
- Bathrooms, & laundries (Industrial, commercial and residential)
- Kitchens and food processing areas

Advantages
- Fast curing
- Epoxy based formula
- Extremely flexible
- Easy to apply using a trowel
- Adheres to metal and PVC pipes, drains and flashing
- Waterproof seam between flashing and façade

Suitable Substrates
- Concrete
- Cement Mortar Beds
- Cement Plaster
- Concrete And Brick Masonry
- Exterior Glue Plywood*
- Gypsum Wallboard*
- Ceramic Tile And Stone
- Terrazzo
- Cement Backer Board**
- Metal[†]

* Interior Applications Only, not for use in permanent wet areas.
** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.
[†]Consult LATICRETE Technical Services prior to use.

Packaging
3.5 gallon pail with 2 Part A 1.4 lbs (0.6 kg), 2 Part B 1.2 lbs (0.5 kg), and 2 Part C 5.5 lbs (2.5 kg).
48 units per pallet.

Color
LATAPOXY Waterproof Flashing Mortar is white for easy verification of correct application.

Approximate Coverage
45 ft^2/unit (4.2 m^2) at 1/8" (3 mm) thick, depending on application.

Shelf Life
Factory sealed containers of this product are guaranteed to be of first quality for two (2) years, if stored at temperatures >32°F (0°C) and <110°F (43°C).

Limitations
- Do not bond to OSB, interior glue plywood, particle board, luan, Masonite® or hardwood surfaces.
- Do not use as a primary roofing membrane over occupied space. For more information in installation of tile over wood decks, or, over occupied or finished spaces please refer to TDS 157 "Exterior Installation of Tile and Stone Over Occupied Space."
- Do not use over expansion joints, structural cracks or cracks with vertical differential movement.
- Do not bridge expansion joints, structural cracks, or cracks with vertical differential movement.
- Must be covered with ceramic tile, stone, brick, concrete, screeds, terrazzo or other wear resistant surface. For temporary cover, use protection board.

- Obtain approval by local building code authority before using product in shower pan applications.
- Do not install directly over single layer wood floors, plywood tubs/showers/fountains or similar constructs.
- Not for use beneath cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when waterproofing membrane is required under plaster finishes.
- Not for use under self-leveling underlayments or decorative wear surfaces.

Cautions
- Protect finished work from traffic until fully cured.
- Until cured LATAPOXY® Waterproof Flashing Mortar may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Contains Silica sand. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.
- Surface temperature must be >45°F (10°C) and less than <90°F (32°C) during installation and for 24 hours thereafter.
- Do not expose unprotected membrane to sun or weather for more than 30 days
- Protect from traffic or water until fully cured.
- Cold weather will require a longer cure time.

4. TECHNICAL DATA
Applicable Standard (ANSI 118.10)
Meets and exceeds all ANSI 118.10

Physical Properties

Test	Method	Results	Specification
Mold Growth	ANSI A118.10–4.1	No Growth	No Growth
Seam Strength	ANSI A118.10–4.2	38–48 lbs/2" wide (3.3–4.2 N/mm wide)	>16 lbs/2" wide (1.4 N/mm wide)
Breaking Strength	ANSI A118.10–4.3	450–530 psi (3.1–3.6 MPa)	>170 psi (1.17 MPa)
Dimensional Stability	ANSI A118.10–4.4	0% change after 72 hr at 158°F (70°C) 0% change after 72 hr at -15°F (-26°C)	<0.7% change after 72 hr at 158°F (70°C) <0.7% change after 72 hr at -15°F (-26°C)
Waterproofness	ANSI A118.10–4.5	No Moisture	No Moisture Penetration After 48 Hrs
7 Day Shear Bond Strength	ANSI A118.10–5.3.	110–150 psi (0.8–1.0 MPa)	>50 psi (0.34 MPa)
7 Day Cure 7 Day Water Soak Shear Strength	ANSI A118.10–5.4	75–95 psi (0.5–0.7 MPa)	>50 psi (0.34 MPa)
4 Week Shear Bond Strength	ANSI A118.10–5.5	90–120 psi (0.6–0.8 MPa)	>50 psi (0.34 MPa)
12 Week Shear Bond Strength	ANSI A118.10–5.6	110–130 psi (0.8–0.9 MPa)	>50 psi (0.34 MPa)
100 Day Water Soak Shear Strength	ANSI A118.10 M–5.7	55–80 psi (0.4–0.6 MPa)	>50 psi (0.34 MPa)
Thickness		40–125 mils (1–3 mm)	

5. INSTALLATION

Test	Method	Result
Set Time Hours	ASTM C266	8 to 12 hours
Pot Life		150 minutes
Light Foot Traffic	ASTM D2240	4 days
Heavy Foot Traffic	ASTM D2240	5 days
Time to Tile		24 hours

Refer to DS 070.5 for complete installation instructions prior to using product.

Surface Preparation
Surface temperature must be 45–90°F (10–32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a LATICRETE® Underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10 ft (6 mm in 3 m) with no more than 1/16" in 1 ft (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water—installation may be made on a damp surface. New concrete slabs shall be damp cured a minimum of 14 days before application.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length;

2. Minimum construction for interior plywood floors:
   SUBFLOOR: 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive;
   UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors" for complete details.

Mixing
Mix Part A with Part B for roughly 30 seconds with a low speed drill until thoroughly mixed, uniform in color. Add Part C and mix for 1 minute until evenly dispersal in the liquid. Product is now ready to apply.

Main Application

Apply product to substrate using 3/16" x 5/32" (5 x 4 mm) V notched trowel. Allow the trowel to gauge the appropriate amount of material onto the surface using the V notch side. Once material is applied, use the flat side of the trowel to "knock down" or flatten all ridges to produce a smooth flat surface (40–125 mils [1–3 mm] thick). Use wet film gauge to check thickness. Be sure to look for any "pinholes" or areas not covered by the material. If any voids appear, cover same or next day with LATAPOXY® Waterproof Flashing Mortar. Make sure all 90° angles at cove and corners are properly filled.

Flashing and Facades Building Elements
- Make sure that flashing and facade building elements are free from rust, oil, dirt, etc. and any contaminants that might prevent adequate bonding.
- Ensure flashing is securely fastened, stable, rigid, and does not allow movement.
- Apply LATAPOXY Waterproof Flashing Mortar directly to flashing and waterproof membrane (e.g. MVIS™ Air & Water Barrier) covering the facade building elements, extending 3" (76 mm) on both sides beyond the flashing and façade building elements interface. The mortar will bond directly to the flashing and waterproof membrane. Ensure that minimum thickness of 40 mil (1mm) is achieved.

Drains and Pipe Penetrations
- Make sure that pipes and drains are free from rust, oil, dirt, etc. and any contaminants that might prevent adequate bonding. For PVC penetrations, scarify pipe where membrane will be applied with sand paper.
- Ensure pipe penetrations and drains are securely fastened, stable, rigid, and do not allow movement.
- Pack all voids around pipe penetrations with closed cell backer rod in appropriate manner.
- Apply LATAPOXY Waterproof Flashing Mortar directly to pipe penetration, extending 3" (76 mm) above point of installation. No fabric or sealant is required. The membrane will bond directly to the pipe. Ensure proper thickness is achieved (minimum 40 mil [1 mm]).
- Flash LATAPOXY Waterproof Flashing Mortar directly over metal flange of the drain—do not cover the weep holes. A two part clamping ring style drain should be used.

Expansion Joints
- Trowel LATAPOXY Waterproof Flashing Mortar flush to the edge of the joint flanks on each side. Fill the joint with the appropriate sized closed cell backer rod and fill with LATASIL™.

Coves and Corners

Trowel LATAPOXY Waterproof Flashing Mortar 6" (152 mm) in both vertical and horizontal substrates from cove. Ensure proper thickness by using recommended trowel and install per installation instructions described in "Main Application" section.

Cleaning

Clean tools with water and soap before product sets.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY materials are available worldwide.

For Distributor Information:

Toll Free: 1.800.243.4788
Telephone: +1.203.393.0010
Internet: **www.laticrete.com**

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM
DS 230.13: LATICRETE Product Warranty

A component of:
DS 230.15: LATICRETE 15 Year System Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)

DS 230.15: LATICRETE 15 Year System Warranty - For Steel or Wood Framed Exterior Facades (United States and Canada)
DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)

8. MAINTENANCE

LATICRETE and LATAPOXY grouts, sealants and pointing mortars require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788 ext. 235
Telephone: +1.203.393.0010 ext. 235
Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at **www.laticrete.com**

10. FILING SYSTEM

Additional product information is available on our website at **www.laticrete.com**. The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty
DS 230.15: LATICRETE 15 Year System Warranty (United States and Canada)
DS 230.15: LATICRETE 15 Year System Warranty – For Steel or Wood Framed Exterior Facades (United States and Canada)
DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
DS 661.0 MVIS Air & Water Barrier
DS 6200.1: LATASIL
DS 070.5: LATAPOXY Waterproof Flashing Mortar Instructions and Details
TDS 152: Bonding Ceramic Tile, Stone or Brick Over Wood Floors
TDS 157: "Exterior Installation of Tile and Stone Over Occupied Space."