



24hr HydroProofing™

DS-682.0-0809



1. PRODUCT NAME

LATAPOXY® 24hr HydroProofing™

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

LATAPOXY 24hr HydroProofing is an epoxy based, 3 component trowel applied waterproofing vapor barrier membrane. It is specifically designed to be used under ceramic tile, stone or brick for rapid installations which require flood testing in 24 hours. LATAPOXY 24hr HydroProofing is flexible, easy to apply and will allow for rapid installations.

Uses

- Swimming pools, fountains, and water features
- Show pans, stalls, “Hop-ups” & tub surrounds
- Bathrooms, & laundries (Industrial, commercial and residential)
- Kitchens and food processing areas
- Interior or exterior use

Advantages

- Allows for flood testing in 24 hours at 70°F (21°C)
- No fabric required at coves, drains or base
- Adheres to pipes and drains
- Fast curing
- Extremely flexible

Suitable Substrates

- Concrete
- Cement mortar beds
- Cement plaster

- Concrete and brick masonry
- Exterior glue plywood*
- Gypsum wallboard
- Ceramic tile and stone**
- Cement terrazzo**
- Cement backer board***
- Metal †

* Interior Applications Only, not for use in permanent wet areas.

** If skim coated with a LATICRETE® Latex Thin-Set Mortar.

*** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

† Consult LATICRETE Technical Services prior to use, interior only.

Packaging

- 3.5 gallon pail with 2 Part A 1.4 lbs (.65 kg), 2 Part B 1.15 lbs (.5 kg), and one Part C 11 lbs (5.5 kg).
- 48 units per pallet.

Color

LATAPOXY 24hr HydroProofing is white for easy verification of correct application.

Approximate Coverage

45 ft²/unit (4.2 m²).

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 particle board, luan, Masonite® or hardwood surfaces.
- **Do not** use as a primary roofing membrane 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 traffic-bearing course. 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.

Cautions

- During cold weather, protect finished work from traffic until fully cured.
- Until cured LATAPOXY 24hr HydroProofing™ 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) during installation and for 24 hours thereafter.
- Do not expose unprotected membrane to sun or weather for > 30 days
- For white and light colored marbles use LATICRETE²⁵⁴ Platinum WHITE.
- For green resin backed, agglomerates and moisture sensitive marbles, use LATAPOXY[®] 300 Adhesive, refer to Data Sheet 633.0.
- 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 inch wide (3.3-4.2 N/mm wide)	>16 lbs/2 inch 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 (0.76-1.03 MPa)	>50 psi (0.34 MPa)
7 day cure 7 day water soak shear strength	ANSI A118.10-5.4	75-95 psi (0.51-0.66 MPa)	>50 psi (0.34 MPa)
4 week shear bond strength	ANSI A118.10-5.5	90-120 psi (0.62-0.83 MPa)	>50 psi (0.34 MPa)
12 week shear bond strength	ANSI A118.10-5.6	110-130 psi (0.76-0.9 MPa)	>50 psi (0.34 MPa)
100 day water soak shear strength	ANSI A118.10 M-5.7	55-80 psi (0.38-0.55 MPa)	>50 psi (0.34 MPa)

Data from TCA 176.

5. INSTALLATION

Surface Preparation

Surface temperature must be 45-90°F (7-32°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.

Application

Consult DS682.5 for specific details

Main application

Apply product to substrate using 3/16" x 5/32" 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. 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 24hr HydroProofing. Make sure all 90° angles at cove and corners are properly filled.

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[®] 24hr HydroProofing[™] directly to pipe penetration, extending 3 inches 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).
- Flash LATAPOXY 24hr HydroProofing 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 24hr HydroProofing flush to the edge of the joint on each side. Fill the joint with the appropriate sized closed cell backer rod and fill with LATICRETE Latasil.

Coves and Corners

- Trowel LATAPOXY® 24hr HydroProofing™ 6 inches 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 025.0: LATICRETE 25 Year System Warranty

8. MAINTENANCE

LATICRETE and LATAPOXY grouts 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:

Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010, ext. 235
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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 025.0: LATICRETE 25 Year System Warranty
DS 633.0: LATAPOXY 300 Adhesive
DS 682.5: LATICRETE 24hr HydroProofing Instructions and Details
DS 6200.1: LATICRETE Latasil™
DS 677.0: LATICRETE 254 Platinum

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