



Watertight™

DS-649.0-0207



1. PRODUCT NAME

LATICRETE® Watertight™

2. MANUFACTURER

LATICRETE International, Inc.
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Bethany, CT 06524-3423 USA

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3. PRODUCT DESCRIPTION

LATICRETE Watertight is a versatile and easy to use liquid rubber waterproofing designed to protect substrates under ceramic tile and stone in wet areas. Ideal for use on floors and walls in bathrooms, kitchens and areas subject to frequent cleaning in commercial and residential settings.

Advantages

- Inhibits stain causing mold and mildew growth with Microban® anti-microbial agent.
- Easy to Install—applies like paint.
- Low odor.
- Clean with water.

- Protects substrates from water damage.
- Low V.O.C.

Suitable Substrates

(Interior Applications Only)

- Concrete
- Gypsum wallboard
- Mortar beds and renders
- Exterior glue plywood
- Cement backer board*
- Gypsum plaster

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

Packaging

Mini Unit:

2 US gallon (7.6 l) of liquid and 6" (150 mm) wide x 75' (22.8 m) long roll of reinforcing fabric boxed together as a point-of-sale item.

Full Unit:

5 US gallon (19 l) of liquid and 6" (150 mm) wide x 75' (22.8 m) long roll of reinforcing fabric in a pail unit; 36 full units/pallet.

Reinforcing Fabric:

6" (150 mm) wide x 75' (22.8 mm) long rolls are available separately; 560 rolls/pallet.

Color:

Green

Coverage

Mini Unit: Approximately 60–70 ft² (5.6–6.5 m²).

Full Unit: Approximately 150–175 ft² (13.9–16.3 m²).

Note: based on 2 coats of liquid at a total wet thickness of 35–45 mils/0.035–0.045" (.9–1.1 mm); coverage will vary due to substrate conditions and application technique.

Shelf Life

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

Limitations

- For interior installations only*.
- Not for use as a shower pan or in continuously submerged applications*. Can be used as a secondary membrane over mortar bed which is on primary shower pan membrane.
- Not a wearing surface—cover with tile, stone or brick.
- DO NOT** expose to direct ultraviolet (UV) for >30 days.
- DO NOT** exceed 80 mils/.080 inch (2 mm) in dry thickness.
- DO NOT** bridge expansion joints, control joints, cold joints or structural cracks.
- DO NOT** install when temperatures are below 45°F (7°C).
- Allow membrane extra curing time in cold or damp weather.
- Not a vapor barrier.
- DO NOT** use in areas subject to negative hydrostatic pressure.
- DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces.

* Exterior applications or installations subject to continuous submersion, use LATICRETE® 9235 Waterproofing Membrane (see Section 10 **FILING SYSTEM**).

Cautions

- For white and light-colored marbles use LATICRETE® 220 Medium Bed Mortar WHITE.
- For green and moisture sensitive marbles, use LATAPOXY® 300 Adhesive (refer to Data Sheet 633.0).

4. TECHNICAL DATA

Applicable Standards

ANSI A118.10

Performance Properties

Test	Test Method	Results	Specification
Tensile Strength	ANSI A118.10 4.3	750–790 psi (5.1–5.5 MPa)	>170 psi (1.2 MPa)
Waterproofness	ANSI A118.10 4.5	Pass	no moisture penetration in 48 hours
100 day Water Immersion Shear Strength	ANSI A118.10 5.7	80–120 psi (0.55–0.83 MPa)	>50 psi (0.34 MPa)
28 day Cure Shear Strength	ANSI A118.10 5.5	100–180 psi (0.69–1.24 MPa)	>50 psi (0.34 MPa)

Data from report on NAP176
Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on the type of tile/stone/brick used, installation methods and site conditions.

5. INSTALLATION

(See DS WPAF.5 for full installation Instructions)

Surface Preparation

All surfaces should be between 45°F (7°C) and 90°F (32°C), structurally sound, clean and free of all dirt, oil, grease, paint laitance, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with a LATICRETE underlayment to provide a wood float or better finish. Do not level with gypsum or asphalt based products.

Dry, dusty concrete slabs or masonry should be cleaned, dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured a minimum of 14 days old before application. All surfaces to receive waterproofing must be plumb and true to within 1/4" (6 mm) in 10 ft. (3 m).

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

Ready to use. Just stir liquid and apply.

Waterproofing Application

Begin applying a liberal coat 20–30 mils/0.02"–0.03" (0.5–0.8 mm) wet thickness of liquid extending approximately 4" (100 mm) on each side of any coves, corners, board joints or changes in substrate plane. Use a paint brush or heavy nap roller. Fold 6" (150 mm) wide fabric in half and embed in the wet liquid. Press firmly with brush or roller to allow complete "bleed through" of liquid. Topcoat fabric with more liquid and let it dry to the touch.

Then apply a liberal coat 20–30 mils/0.02–0.03" (0.5–0.8 mm) wet thickness of liquid over the entire surface, including all fabric reinforced areas. To ensure proper application, use a wet film thickness gauge to spot check coated areas. Cover thin areas with additional liquid. Let membrane surface dry to the touch. Spread a second liberal coat of liquid over the entire surface. Let the second coat dry to touch.

Note: Let membrane cure fully for 7 days at 70°F (21°C) and 50% RH before flood testing.

Ceramic Tile, Stone and Brick Installation

Tile, stone or brick can then be installed using a LATICRETE Latex Fortified Mortar or LATICRETE Polymer Fortified Mortar as soon as the membrane is dry to the touch. If installing tile, stone or brick with LATAPOXY 300 Adhesive or a LATICRETE Latex Fortified Thick Bed Mortar, first allow membrane to dry thoroughly 2–3 days at 70°F (21°C) and 50% RH. Caulk between tile, stone, brick or other hard finish and any penetrations with LATICRETE Latasil™. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI specification A108.01-3.7 "requirements for movement joints: preparations by other trades" or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar. Pack gaps in pipes or other penetrations with a compressible backer rod and suitable flexible urethane or silicone sealant such as LATICRETE Latasil. Flash around drains and pipes with LATICRETE Watertight™.

Cleaning

Clean tools with water while liquid is still wet.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® materials are available worldwide. For Distributor information, call:

Toll Free: 800.243.4788
Telephone: 203.393.0010

For on-line Distributor information, visit LATICRETE at 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 230.14: LATICRETE 15 Year Residential Warranty
DS 700.12: LATICRETE Lifetime Residential 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 the LATICRETE Technical Service Hotline (hours 8:00 AM to 5:30 PM EST):

Toll Free: 800.243.4788, ext. 235
Telephone: 203.393.0010, ext. 235
Fax: 203.393.1948

Technical or safety literature

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

10. FILING SYSTEM

Additional product information available upon request:

DS 230.13: LATICRETE Product Warranty
DS 230.14: LATICRETE 15 Year Residential Warranty
DS 700.12: LATICRETE Lifetime Residential Warranty
DS 236.0: LATICRETE 9235 Waterproofing Membrane
DS 297.0: LATICRETE 220 Medium Bed Mortar
DS 633.0: LATAPOXY 300 Adhesive
DS 6200.1: LATICRETE Latasil™
DS WPAF.5: How to Install LATICRETE Membrane
TDS 152: Bonding Ceramic Tile, Stone or Brick Over Wood Floors



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