



# WaterTight™ Floor N'Wall Waterproofing & Crack Isolation

DS-660.0-0611



## 1. PRODUCT NAME

LATICRETE® WaterTight™ Floor N'Wall Waterproofing & Crack Isolation

## 2. MANUFACTURER

LATICRETE International, Inc.  
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## 3. PRODUCT DESCRIPTION

LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation is a thin, load bearing waterproofing/crack isolation membrane that DOES NOT require the use of fabric in the field, coves or corners. LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation is a single component self curing liquid rubber polymer that forms a flexible, seamless waterproofing membrane. LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation bonds directly to a wide variety of substrates.

### Uses

- Interior and exterior.
- Swimming pools, fountains and water features.
- Shower pans, stalls and tub surrounds.
- Industrial, commercial and residential bathrooms and laundries.
- Spas and hot tubs.
- Kitchens and food processing areas.
- Terraces and balconies over unoccupied spaces.
- Countertops and facades.
- Steam rooms (when used in conjunction with a vapor barrier).

### Advantages

- Does not require the use of fabric.\*
- Bonds directly to metal and PVC plumbing fixtures only.
- Thin; only 0.020–0.030" (0.5–0.8 mm) thick when cured.
- Changes in color from a light blue to a darker blue when cured.
- Anti-fracture protection of up to 1/8" (3 mm) over shrinkage and other non-structural cracks.

- Exceeds ANSI A118.10 and A118.12.
- Containing Microban® antimicrobial product protection.
- Fast curing; allows foot traffic in 4–6 hours @ 70°F (21°C), 50% RH.
- Lighter color for ease of inspection.
- Safe—no solvents and non-flammable.
- Install tile, brick and stone directly onto membrane.

\* For gaps 1/8" (3 mm) or less see DS 003.9 for complete instructions

### Suitable Substrates

- Concrete
- Concrete & brick masonry
- Cement mortar beds
- Gypsum wallboard‡
- Exterior glue plywood‡
- Ceramic tile & stone¥
- Cement backer board§

‡ Interior applications only.

¥ 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.

### Packaging

Mini Unit: 1 gal (3.8 l) pails of liquid

### Approximate Coverage

Mini Unit: 50 ft<sup>2</sup> (4.6 m<sup>2</sup>)

### 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 <100°F (38°C).

### Limitations

- Do not bond to particle board, luan, Masonite® or hardwood surfaces.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use LATICRETE WaterTight™ Floor N'Wall Waterproofing & Crack Isolation.
- **Note:** Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.
- Do not use as a primary roofing membrane over occupied space.
- Do not use over dynamic expansion joints, structural cracks or cracks with vertical differential movement
- Do not use over cracks >1/8" (3 mm) in width.
- Do not use as a vapor barrier (especially in steam rooms).

- Do not expose unprotected membrane to sun or weather for more than 30 days.
- Do not expose to negative hydrostatic pressure, excessive vapor transmission, rubber solvents or ketones.
- Must be covered with ceramic tile, stone, brick, concrete, screeds, terrazzo or other traffic-bearing finish. Use protection board for temporary cover.
- 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

Consult MSDS for more safety information.

- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 5 lbs/1,000 ft<sup>2</sup> (283 µg/sm<sup>2</sup>)/24 hrs per ASTM F-1869 or less than 75% relative humidity as measured with moisture probes.
- During cold weather, protect finished work from traffic until fully cured.
- Not for use in conjunction with a mastic type adhesive.
- For white and light-colored marbles, use a white LATICRETE thin set mortar.
- For green and moisture sensitive marble, agglomerates and resin backed tile and stone use LATAPOXY® 300 Adhesive (refer to Data Sheet 633.0).
- Allow wet mortars/plasters (deck mud consistency) to cure for 72 hours at 70°F (21°C) prior to installing LATICRETE® WaterTight™ Floor N'Wall Waterproofing & Crack Isolation.
- Protect from exposure to traffic or water until fully cured.

## 4. TECHNICAL DATA

### Applicable Standard

ANSI A118.10 and A118.12

### Physical Properties

Physical Property	Test Method	
7-day Hydrostatic Test	ANSI A118.10	Pass
7-day Tensile Strength	ANSI A118.10	265–300 psi (1.8–2.0 MPa)
7-day Water Immersion	ANSI A118.10	95–120 psi (.7–.83 MPa)
7-day Shear Bond	ANSI A118.10	200–275 psi (1.4–1.9 MPa)
28-day Shear Strength	ANSI A118.10	214–343 psi (1.5–2.3 MPa)
Thickness (dried)		0.020–0.030" (0.5–0.8 mm)

### Working Properties

LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation can be applied using a paint brush, roller or trowel. All areas must have two coats to ensure waterproofing capabilities. When using a paint roller, substrate will not show through LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation if coated with 0.020–0.030" (0.5–0.8 mm) of dried membrane. Color changes from a light blue to a darker blue when fully cured.

## 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 and a minimum of 14 days old 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.

### Pre-Treat Cracks & Joints

Fill all substrate cracks, cold joints, and control joints to a smooth finish using a LATICRETE Latex Fortified Thin-Set. Alternatively, a liberal coat of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation™ applied with a paint brush or trowel may be used to fill in non structural joints and cracks. Apply a liberal coat of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation approximately 8" (200 mm) wide over substrate cracks, cold joints, and control joints using a paint brush or roller (heavy napped roller cover).

### Pre-Treat Coves and Floor/Wall Transitions

Fill all substrate coves and floor/wall transitions to a smooth finish and changes in plane using a LATICRETE latex fortified thin-set mortar. Alternatively, a liberal coat of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation applied with a paint brush or trowel may be used to fill in cove joints and floor/wall transitions <1/8" (3 mm). Apply a liberal coat of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation approximately 8" (200 mm) wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover). LATICRETE 6" (150 mm) LATICRETE Waterproofing Anti-Fracture Fabric can be used to pretreat cracks, joints, curves, corners, drains and penetrations with LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation

### Pre-Treat Drains

Drains must be of the clamping ring type, with weepers and as per ASME A112.6.3. Apply a liberal coat of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation Waterproofing Membrane liquid around and over the bottom half of drain clamping ring. Cover with a second coat of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation. When dry, apply a bead of Silicone Caulk where the LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation meets the drain throat. Install top half of drain clamping ring.

## Pre-Treat Penetrations

Allow for a minimum 1/8" (3 mm) space between drains, pipes, lights or other penetrations and surrounding ceramic tile, stone or brick. Pack any gaps around pipes, lights or other penetrations with a LATICRETE® Latex fortified thin-set mortar. Apply a liberal coat^^ of LATICRETE WaterTight™ Floor N'Wall Waterproofing & Crack Isolation liquid around penetration opening. Cover with a second coat^^ of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation. Bring LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation up to level of tile or stone. When dry, seal flashing with LATICRETE Latasil™.

## Main Application

Allow any pre-treated areas to dry to the touch. Apply a liberal coat^^ of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation with brush or roller over substrate including pre-treated areas. Apply another liberal coat^^ of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation over the first coat of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation. Let topcoat dry to the touch, approximately 1–3 hours at 70°F (21°C) and 50% RH. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation will dry to a darker blue color when fully cured. Use additional LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation to seal defects.

## Expansion Joints

See LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation Installation Instructions 003.9

**Note:** Apply a liberal coat^^ of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation, approximately 8" (200 mm) wide over the areas. Then embed and loop the 6" (150 mm) wide LATICRETE Waterproofing Anti-Fracture Fabric and allow to bleed through. Then top coat with a second coat^^ of LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation.

## Protection

Provide protection for newly installed membrane, even if covered with a thin bed ceramic tile, stone or brick installation, against exposure to rain or other water for a minimum of 24 hours at 70°F (21°C) and 50% RH.

## Installing Finishes

Once LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation has dried to the touch, ceramic tile, stone or brick may be installed by the thin bed method with a LATICRETE Latex Thin-Set Mortar. Allow LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation to cure 24 hours at 70°F (21°C) and 50% RH before covering with concrete, thick bed mortar, screeds, toppings, coatings, epoxy adhesives, terrazzo or moisture sensitive resilient or wood flooring. Do not use solvent-based adhesives directly on LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation.

## Drains & Penetrations

Use LATICRETE Latasil and foam backer rod to seal space between drain or penetration and finish. Do not use a grout or joint filler mortar.

## Control Joints

Ceramic tile, stone and brick installations must include sealant-filled joints over any control joints in the substrate. However, the sealant-filled joints can be offset horizontally by as much as one tile width from the substrate control joint location to coincide with the grout joint pattern.

## Expansion Joints

Ceramic tile, stone and brick installations must include expansion at coves, corners, other changes in substrate plane and over any

expansion joints in the substrate. Expansion joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in the Tile Council of North America, Inc. (TCNA) Handbook Installation Method EJ171. Use LATICRETE Latasil and backer rod.

## Cleaning

While wet, LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation can be washed from tools with water.

## 6. AVAILABILITY AND COST

### Availability

LATICRETE and LATAPOXY materials are available worldwide.

### For Distributor information, call:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010

For on-line Distributor Information, visit LATICRETE at [www.laticrete.com](http://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 230.12HC: LATICRETE Home Center 10 Year System Warranty

DS 700.12HC: LATICRETE Home Center Lifetime 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: 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](http://www.laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [www.laticrete.com](http://www.laticrete.com). The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty

DS 230.12HC: LATICRETE Home Center 10 Year System Warranty

DS 700.12HC: LATICRETE Home Center Lifetime Warranty

DS 6200.1: LATICRETE Latasil™

DS 633.0: LATAPOXY 300 Adhesive

TDS 152: "Bonding Ceramic Tile, Stone or Brick Over Wood Floors"

DS 003.9: LATICRETE WaterTight Floor N'Wall Waterproofing & Crack Isolation Installation Instructions

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^^ Wet coat thickness is 15–22 mils, 0.15–0.022" (0.4–0.6 mm); use wet film gauge to check thickness; consumption per coat is ~0.01 gal/ft² (~0.4 l/m²); coverage per coat is ~100 ft²/gal (~2.5 m²/l).

Data Sheets are subject to change without notice. For latest revision, check our website at [www.laticrete.com](http://www.laticrete.com)