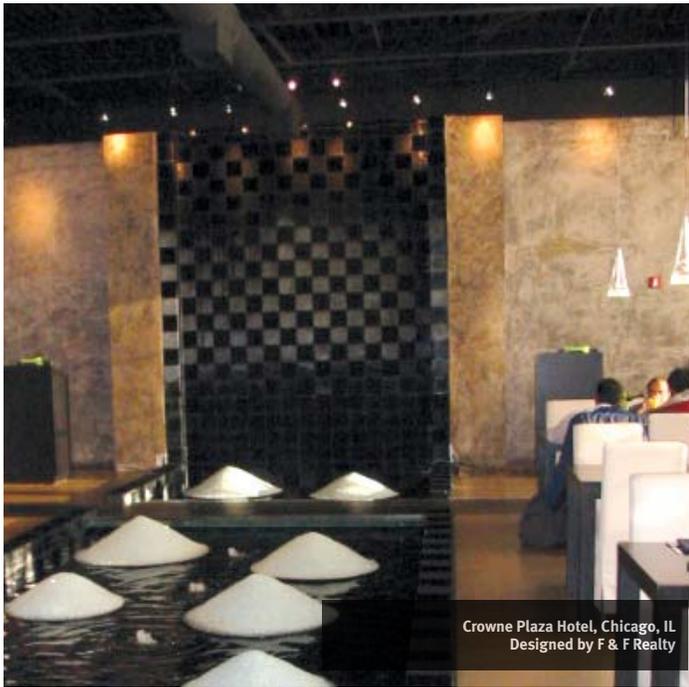




# Hydro Ban™

DS-663.0-0608



## 1. PRODUCT NAME

LATICRETE® Hydro Ban™

## 2. MANUFACTURER

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

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## 3. PRODUCT DESCRIPTION

LATICRETE Hydro Ban is a thin, load bearing waterproofing/crack isolation membrane that **DOES NOT** require the use of fabric in the field, coves or corners. LATICRETE Hydro Ban is a single component self curing liquid rubber polymer that forms a flexible, seamless waterproofing membrane. LATICRETE Hydro Ban 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.\*
- Allows for flood testing in 24 hours.\*\*
- 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 sage to an olive green when cured.
- Anti-fracture protection of up to 1/8" (3 mm) over shrinkage and other non-structural cracks.
- "Extra Heavy Service" rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test).
- Exceeds ANSI A118.10 and A118.12.
- IAPMO approved 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 663.5 for complete instructions

\*\* When cured 70°F (21°C) or higher at 50% RH lower temperature at higher RH will require long cure times.

### Suitable Substrates

- Concrete
- Concrete & brick masonry
- Cement mortar beds
- Cement plaster
- Gypsum wallboard\*
- Exterior glue plywood\*
- Ceramic tile & stone\*\*
- Cement terrazzo\*\*
- 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

Commercial Unit: 5 gal (18.9 l) pail liquid (36 commercial units/pallet)

Full Unit: 2 gal (7.6 l) pail liquid (80 full units/pallet)

Mini Unit: 4 x 1 gal (3.8 l) pails of liquid packed in a carton (30 cartons/pallet)

## Approximate Coverage

Commercial Unit: 250 ft<sup>2</sup> (23.2 m<sup>2</sup>)

Full Unit: 100 ft<sup>2</sup> (9.3 m<sup>2</sup>)

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 <110°F (43°C).

\* High humidity will reduce the shelf life of bagged product.

## 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® Hydro Ban™.
- **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 (See LATICRETE Hydro Ban Installation Instructions, DS 663.5, for complete instructions).
- **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.

- Allow membrane to cure fully (typically 24 hours @ 70°F (21°C) and 50% RH before flood testing); flood test prior to applying tile or stone. Membrane must be <1/8" (3.2 mm) thick.
- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 5 lbs/1,000 ft<sup>2</sup> (2.26 kg/92.9 m<sup>2</sup>)/24 hrs per ASTM F-1869 or 75% relative humidity as measured with moisture probes.
- During cold weather, protect finished work from traffic until fully cured.
- For white and light-colored marbles, use a white LATICRETE Latex Portland Cement 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 Hydro Ban. Allow a minimum 72 hour cure at 70°F (21°C) prior to flood testing in these conditions.
- For temperatures between 45–69°F (7–21°C) allow 3 days prior to flood testing.
- Protect from exposure to traffic or water until fully cured.

## 4. TECHNICAL DATA

### VOC/LEED Product Information



This product has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting Products in finished form.

### Applicable Standard

ANSI A118.10 and A118.12

### Physical Properties

Physical Property	Test Method	LATICRETE® Hydro Ban™
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)

### Working Properties

LATICRETE Hydro Ban 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 Hydro Ban if coated with 0.020–0.030" (0.5–0.8 mm) of dried membrane. Color changes from a light sage to olive green 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 at 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<sup>^^</sup> of LATICRETE Hydro Ban™ applied with a paint brush or trowel may be used to fill in non structural joints and cracks. Apply a liberal coat<sup>^^</sup> of LATICRETE Hydro Ban approximately 8" (200 mm) wide over substrate cracks, cold joints, and control joints using a paint brush or roller (heavy napped roller cover). LATICRETE 6" (150 mm) reinforcing fabric can be used to pretreat cracks, joints, curves, corners, drains and penetrations with LATICRETE® Hydro Ban™.

### 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<sup>^^</sup> of LATICRETE Hydro Ban 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<sup>^^</sup> of LATICRETE Hydro Ban approximately 8" (200 mm) wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover).

### Pre-Treat Drains

Drains must be of the clamping ring type, with weepers and as per ASME A112.6.3. Apply a liberal coat<sup>^^</sup> of LATICRETE Hydro Ban Waterproofing Membrane liquid around and over the bottom half of drain clamping ring. Cover with a second coat<sup>^^</sup> of LATICRETE Hydro Ban. When dry, apply a LATICRETE Latasil™ bead where the LATICRETE Hydro Ban 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<sup>^^</sup> of LATICRETE Hydro Ban liquid around penetration opening. Cover with a second coat<sup>^^</sup> of LATICRETE Hydro Ban. Bring LATICRETE Hydro Ban 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<sup>^^</sup> of LATICRETE Hydro Ban with brush or roller over substrate including pre-treated areas. Apply another liberal coat<sup>^^</sup> of LATICRETE Hydro Ban over the first coat of LATICRETE Hydro Ban. 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 Hydro Ban will dry to an olive green color when fully cured. Use additional LATICRETE Hydro Ban to seal defects.

### Expansion Joints

See LATICRETE Hydro Ban Installation Instructions 663.5.

**Note:** Apply a liberal coat of LATICRETE Hydro Ban, approximately 8" (200 mm) wide over the areas. Then embed and loop the 6" (150 mm) wide LATICRETE Waterproofing Membrane Reinforcing

Fabric and allow to bleed through. Then top coat with a second coat of LATICRETE Hydro Ban.

### 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.

### Flood Testing

Allow membrane to cure fully before flood testing, typically 24 hours at 70°F (21°C) and 50% RH. Cold and/or wet conditions will require a longer curing time. For temperatures 45–69°F (7–21°C) allow 3 days prior to flood testing.

### Installing Finishes

Once LATICRETE Hydro Ban 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 Hydro Ban 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 Hydro Ban.

<sup>^^</sup> Dry coat thickness is 20–30 mils, 0.02"–0.03", (0.5–0.8 mm); consumption per coat is ~0.01 gal/ft<sup>2</sup> (~0.4 l/m<sup>2</sup>); coverage per coat is ~100 ft<sup>2</sup>/gal (~2.5 m<sup>2</sup>/l).

### 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 joints 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 E1171. Use LATICRETE Latasil and backer rod.

### Spray Application of LATICRETE Hydro Ban

Follow all installation and surface preparation requirements outlined in this document and DS 663.5 and TDS 410.

The sprayer being used for the application of LATICRETE Hydro Ban should be capable of producing a maximum of 3300 psi (22.8 MPa) with a flow rate of 0.95 to 1.6 GPM (3.6 to 6.0 LPM) using a 0.521 or a 0.631 reversible tip. Keep the unit filled with LATICRETE Hydro Ban to ensure continuous application of liquid. The hose length should not exceed 100' (30 m) in length and 3/8" (9 mm) in diameter.

Apply a continuous LATICRETE Hydro Ban film with an overlapping spray. The wet film has a sage green appearance and dries to a darker olive green color. When the first coat has dried to a uniform olive green color, approximately 45 to 90 minutes at 70°F (21°C), visually inspect the coating for any voids or pinholes. Fill any defects with additional material and apply the second coat at right angles to the first. The wet film thickness should be checked periodically using a wet film gauge. Each wet coat should be 0.015–0.022 inches (0.4–0.6 mm) thick. The combined dried coating should be 0.020–0.030 inches (0.5–0.8 mm) thick or 0.029–0.043 inches (0.7–0.11 mm) wet.

Check application thickness with a wet film gauge periodically as the LATICRETE® Hydro Ban™ is being dispensed to ensure that the appropriate thickness and coverage is achieved. Bounce back and overspray will consume more product. To achieve the required film thickness, the coating must be free from pinholes and air bubbles. Do not back roll the spray applied coating. Allow the LATICRETE Hydro Ban to cure in accord with the instructions in this document, DS 663.5 and TDS 410 prior to the installation of the tile or stone finish.

It is important to note that areas not scheduled to receive the LATICRETE Hydro Ban should be taped off and protected from any potential overspray. Expansion and movement joints should be honored and treated as outlined in this document, DS 663.5 and TDS 410.

### Cleaning

While wet, LATICRETE Hydro Ban 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 230.12: LATICRETE 10 Year System Warranty

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: 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 230.12: LATICRETE 10 Year System Warranty  
DS 230.14: LATICRETE 15 Year Residential Warranty  
DS 700.12: LATICRETE Lifetime Residential Warranty  
DS 297.0: LATICRETE 220 Marble & Granite Mortar  
DS 6200.1: LATICRETE Latasil™  
DS 633.0: LATAPOXY® 300 Adhesive  
TDS 152: “Bonding Ceramic Tile, Stone or Brick Over Wood Floors”  
TDS 410: Spraying LATICRETE Hydro Ban

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