



LATICRETE® Hydro Ban

Waterproofing Membrane

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.

Application

- 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

- Allow for flood testing after 24 hours at 70°F (21°C) or higher †
- Does not require the use of fabric.
- Bonds directly to metal and PVC plumbing fixtures.
- 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.
- Contains Microban® antimicrobial product protection.

- Rapid drying for a faster time to tile.
- Lighter color for ease of inspection.
- Safe—no solvents and non-flammable.
- Very low VOC
- Install tile, brick and stone directly onto membrane.

‡ Refer to cautions section for more information on curing

Suitable Substrates

- Concrete
- Concrete & brick masonry
- Cement mortar beds
- Cement plaster
- Gypsum wallboard*
- Exterior glue plywood*
- Ceramic tile & stone**
- Cement terrazzo**
- Cement backer board***
- Poured Gypsum Underlayment †

* 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.

† Interior use only. Follow TCNA Guidelines/ Methods: F200, RH111, RH122, F180

Packaging

20 litre pail

Colour - Light sage

Coverage

Approximately 240-250sft per 20 ltr pail

- Note: Coverage varies based on substrate texture & porosity, and application technique. It is important not to over apply Hydroban and plan to achieve the above coverage.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored indoors at 65-80° F (18- 26° C).

Limitations

- DO NOT bond to OSB, 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 and L/600 for all exterior veneer applications 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.
- 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

Consult MSDS for more safety information.

- Allow membrane to cure fully (typically 72 hours at 50°F–69°F (10°C–21°C) and 70% RH and 24 hours at 70°F (21°C) or higher and 50% RH before

flood testing); flood test prior to applying tile or stone.

- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 5 lbs/1,000 ft² (283 µg/s m²)/ 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.
- Wet coat thickness is 0.015 to 0.022" (0.4 to 0.6 mm) per coat. Use a wet film thickness gauge to check thickness.
- Allow wet mortars/plasters (wall mud consistency) to cure for 72 hours at 70°F (21°C) prior to installing LATICRETE Hydro Ban. Allow the LATICRETE Hydro Ban a minimum 24 hours cure at 70°F (21°C) prior to flood testing in these conditions.
- Protect from exposure to traffic or water until fully cured.
- The LATICRETE Hydro Ban will go from a light sage green to a darker olive green when fully cured. The second coat should not be applied until the first coat is fully cured. All flood test times should be after the second coat is fully cured with no light sage areas showing.

TECHNICAL DATA

Performance Properties

Physical Property	Test Method	LATICRETE Hydro Ban
7-day Hydrostatic Test	ANSI A118.10	Pass
7-day Breaking Strength	ANSI A118.10	265–300 psi (1.8–2.0 MPa)
7-day Water Immersion	ANSI A118.10	95–120 psi (0.7–0.83 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)
System Crack Resistance Test	ANSI A118.12.5.4	Pass (High)
Water Vapor Transmission	ASTM E 96–00E1 Procedure B	0.515 grains/h • ft ² (0.3602 g/h • m ²)
Water Vapor Permeance	ASTM E 96–00E1	1.247 perms 71.21 (ng/Pa • s •

	Procedure B	m2)
System Performance	ANSI A118.10; ASTM C627; TCA Rating	cycles 1–14 "Extra Heavy"
Elongation		>400%
Thickness (dried)		0.5–0.8 mm

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.

Time to Tile

Substrate	Time to Tile (min.)*
Concrete	50
Cement Board	30
Fiber Cement Underlayment	15

*After second coat is applied at 70°F (21°C) and 50% RH . The time to tile will vary depending on substrate, temperature and relative humidity.

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.**

INSTALLATION

Surface Preparation

Surface temperature must be 50–90°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 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 and L/600 for all exterior veneer applications 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 Hydro Ban applied with a paint brush or trowel may be used to fill in non-structural joints and cracks. Apply a liberal coat^^ 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) LATICRETE Waterproofing/Anti-Fracture 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^^ 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^^ 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^^ of LATICRETE Hydro Ban Waterproofing Membrane liquid around and over the bottom half of drain clamping ring. Cover with a second coat^^ of LATICRETE Hydro Ban. When dry, apply a silicone sealant

bead where the LATICRETE Hydro Ban meets the drain throat. When dry 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 Hydro Ban liquid around penetration opening. Cover with a second coat of LATICRETE Hydro Ban. Bring LATICRETE Hydro Ban up to level of tile or stone. When dry, seal flashing with silicone sealant.

Crack Isolation (Partial Coverage) Crack suppression must be applied a minimum of 3 times the width of the tile or stone being installed. The tile installed over the crack cannot be in contact with the concrete.

Follow TCNA Method F125 for the treatment of hairline cracks, shrinkage cracks, and saw cut or control joints: Apply a liberal coat of LATICRETE Hydro Ban to a minimum of three (3) times the width of the tile using a paint roller or paint brush and allow to dry. After the first coat has dried to the touch, install a second liberal coat of LATICRETE Hydro Ban over the first coat.

As an alternative; Apply a liberal coat of LATICRETE Hydro Ban liquid, 3 times the width of the tile over the crack using a paint roller or paint brush and immediately apply the 6" (150mm) wide LATICRETE Waterproofing/Anti-Fracture Fabric into the wet liquid over the crack. Press firmly with brush or roller to allow complete "bleed through" of liquid. Immediately apply another liberal coat of LATICRETE Hydro Ban liquid over the fabric and allow to dry. When the first treatment has dried, apply a liberal coat of LATICRETE Hydro Ban to over the first wide coat, using a paint roller or paint brush, and allow to dry. Treat closest joint to the crack, saw cut, or cold joint in the tile or stone installation with Silicones sealant.

Main Application

Allow any pre-treated areas to dry to the touch. Apply a liberal coat of LATICRETE Hydro Ban with brush or roller over substrate including pre-treated areas. Apply another liberal coat of LATICRETE Hydro Ban over the first coat of LATICRETE Hydro Ban. Let topcoat dry to the touch, approximately 1–2 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 it's dry to touch. Use additional LATICRETE Hydro Ban to seal defects.

Movement Joints

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/Anti-Fracture 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 after final cure at 70°F (21°C) and 50% RH. Cold and/or wet conditions will require a longer curing time. For temperatures 50–69°F (10–21°C) allow 72 hours after final cure 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.

Drains & Penetrations

Use silicone sealant 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.

Movement Joints

Ceramic tile, stone and thin 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 silicone sealant and backer rod.

Spray Application of LATICRETE Hydro Ban

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. 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 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.

^^ Wet coat thickness is 0.4 – 0.6 mm consumption per coat is - 0.01/gal/ft² (-0.4 ℓ/m²); coverage per coat is - 2.5m²/ℓ. Use wet film gauge to check thickness

Cleaning

While wet, LATICRETE Hydro Ban can be washed from tools with water.

AVAILABILITY AND COST

Availability

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

TELEPHONE: +91-40-30413100

FAX: +91-40-23378784

e-mail: [contact@ myklaticrete.com](mailto:contact@myklaticrete.com)

Cost

Contact a LATICRETE®/LATAPOXY® Distributor in your area.

MAINTENANCE

LATICRETE® and LATAPOXY® products require routine cleaning with neutral pH soap and water or MYK LATICRETE Clenza series suitable cleaners. All other LATICRETE® and LATAPOXY® materials require no maintenance but proper installation as per instruction.

Performance and durability may depend on properly maintaining of Installed area.

WARRANTY

MYK Laticrete India Pvt Ltd warrants that LATICRETE® 9237 waterproofing Membrane is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of two (2) years from manufacturing of the product subject to the terms and conditions stated in LATICRETE® Product Warranty

TECHNICAL SERVICES

Technical assistance

Information is available by calling the MYK LATICRETE Technical Services at:

Telephone: +91-40-30413100

FAX: +91-40-23378784

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