



HYDRO BARRIER™

DS-105-0126

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

HYDRO BARRIER™

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

HYDRO BARRIER is a thin, load bearing, self-curing liquid rubber polymer which can be easily applied to form a flexible seamless waterproof/anti-fracture membrane. HYDRO BARRIER can be used on interior and exterior, horizontal or vertical surfaces and is approved by IAPMO for use as shower pan liner.

Equipped with antimicrobial protection.

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

- Allows for flood testing in 24 hours[^]
 - Thin; only 0.020–0.030" (0.5–0.8 mm) thick when cured
 - Changes in color from a light blue to darker blue 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
 - Equipped with antimicrobial technology to protect the membrane against the growth of stain- and odor-causing microbes, including bacteria, mold, and mildew.
 - 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
- [^]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 and Brick Masonry
- Cement Mortar Bed
- Cement Plaster
- Gypsum Wallboard
- Exterior Glue Plywood (Interior Only)
- Ceramic Tile and Stone
- Cement Terrazzo
- Cement Backer Board
- Poured Gypsum Underlayment
- Gypsum Plaster (Interior use only, non-wet areas)

Packaging

Full Unit: 3.5 gal (13.3 L) pail liquid (48 full units/pallet)

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

Waterproofing/Anti-Fracture Fabric sold separately.
Item# S-09235-NF-19

Approximate Coverage

Full Unit: 175 ft² (16.2 m²)

Mini Unit: 50 ft² (4.6 m²)

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored off the ground in a dry area. *** High humidity will reduce the shelf life of bagged product.

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 HYDRO BARRIER.
- Requires the use of Waterproofing/Anti-Fracture Fabric in the coves and corners or any change of plane when used as waterproofing membrane.
- When using HYDRO BARRIER™, fabric is not required when it is being used as a full field coating for crack isolation and is an option when chasing existing cracks
- DO NOT use as a primary roofing membrane over occupied space. For more information in installation of tile over wood decks, or, over occupied or finished spaces please refer to TDS 157 "Exterior Installation of Tile and Stone Over Occupied Space."
- DO NOT use over dynamic expansion joints, structural cracks or cracks with vertical differential movement (See HYDRO BARRIER Installation Instructions, DS 105.5, for complete instructions).
- DO NOT use over cracks >1/16" (1.5 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.
- Follow all applicable building codes having jurisdiction.
- 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.
- 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.

Cautions

- Consult SDS for 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.
- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 5 lbs/1,000 ft² (283 µg/s • m²) per ASTM F-1869 or 85% relative humidity Per ASTM F2170 as measured with moisture probes.
- Protect finished work from traffic until fully cured.
- For white and light-colored marbles, use a white 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 HYDRO BARRIER.
- 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 certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program For Chemical Emissions For Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

Applicable Standard

- ANSI A118.10
- ANSI A118.12

Physical Properties

Physical Property	Test Method	HYDRO BARRIER™
7-day Hydrostatic Test	ANSI A118.10	Pass
7-day Tensile Strength	ANSI A118.10	250–300 psi (1.8–2.1 MPa)
7-day Water Immersion	ANSI A118.10	90–120 psi (0.6–0.83 MPa)
7-day Shear Bond	ANSI A118.10	200–250 psi (1.4–1.7 MPa)
28-day Shear Strength	ANSI A118.10	210–340 psi (1.5–2.3 MPa)
System Crack Resistance Test	ANSI A118.12 5.4	Pass (High)
Thickness (Dry)		20–30 mils (0.5–0.8 mm)

Working Properties

HYDRO BARRIER can be applied using a paint brush, roller, trowel or airless sprayer. All areas must have two coats to ensure waterproofing capabilities. When the second coat is applied the substrate will not show through HYDRO BARRIER if coated with 0.020–0.030" (0.5–0.8 mm) of dried membrane. Color changes from a light blue to darker blue when fully cured.

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

• Surface Preparation

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. SUB FLOOR: 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.

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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.

Bonding to TCNA Compliant Poured Gypsum Underlayment

Poured gypsum-based underlayments must meet TCNA requirements for compressive strength and the performance requirements of ASTM C627 for the anticipated service level designated by the design

professional. Poured gypsum underlayment thickness and application varies, consult the manufacturer for specific recommendations. The underlayment must be dry and properly cured following the manufacturer's recommendations to achieve a permanent installation. Surfaces to be covered must be clean, structurally sound and meet the maximum allowable deflection standard of L/360 for ceramic tile and L/480 for stone under total anticipated load. Expansion joints must be installed in accordance with ANSI/TCNA guidelines. Prime all surfaces to receive HYDRO BARRIER™ with properly applied manufacturer's sealer or with a primer coat of HYDRO BARRIER, consisting of 1 part HYDRO BARRIER diluted with 4 parts clean, cool tap water. In a clean pail, mix at low speed to obtain a homogeneous solution. The primer can be brushed, rolled or sprayed to achieve an even coat. Apply the primer coat to the floor at a rate of 250 to 300 ft²/gallon (6.1 to 7.5 m²/L) of diluted HYDRO BARRIER. Allow the primer coat to dry completely (approximately 24 hrs., depending on substrate and air temperature and humidity). When dry apply two full coats of HYDRO BARRIER to the primed area following the guidelines in this data sheet and DS-1216 HYDRO BARRIER Installation Instructions.

Pre-Treat Cracks & Joints

Fill all substrate cracks, cold joints, and control joints to a smooth finish using a Latex Fortified Thin-Set. Alternatively, a liberal coat^{^^} of HYDRO BARRIER Plus applied with a paint brush or trowel may be used to fill in nonstructural joints and cracks less than 1/8" (3 mm). When using HYDRO BARRIER fabric is not required when it is being used as a full field coating for crack isolation and is an option when chasing existing cracks. Any crack above a 1/8" can be filled with thin-set and allowed to cure prior to the application of HYDRO BARRIER. As an alternative method apply a liberal coat^{^^} of HYDRO BARRIER approximately 8" (200 mm) wide over substrate cracks, cold joints, and control joints using a paint brush or roller (heavy napped roller cover). After the first coat has dried to the touch, install a second liberal coat^{^^} of HYDRO BARRIER over the first coat.

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 latex fortified thin-set mortar. A liberal coat^{^^} of HYDRO BARRIER 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 HYDRO BARRIER approximately 8" (200 mm) wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover). After the first coat has dried to the touch, install a second liberal coat^{^^} of HYDRO BARRIER over the first coat.

Pre-Treat Drains

Drains must be of the bonding flange or clamping ring type, with weepers and as per ASME A112.6.3. Apply a liberal coat^{^^} of HYDRO BARRIER Waterproofing Membrane liquid around and over the bonding flange or

bottom half of drain clamping ring. After the first coat has dried to the touch, install a second liberal coat^{^^} of HYDRO BARRIER over the first coat. When dry, apply a LATASIL™ bead where the HYDRO BARRIER 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 fortified thin-set mortar. Apply a liberal coat^{^^} of HYDRO BARRIER Plus liquid around penetration opening. After the first coat has dried to the touch, install a second liberal coat^{^^} of HYDRO BARRIER over the first coat. Bring HYDRO BARRIER up to level of tile or stone. When dry, seal flashing with LATASIL.

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 HYDRO BARRIER 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 HYDRO BARRIER over the first coat.

As an alternative; Apply a liberal coat^{^^} of HYDRO BARRIER liquid, 3 times the width of the tile over the crack using a paint roller or paint brush and immediately apply the 6" (150 mm) wide 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 HYDRO BARRIER liquid over the fabric and allow to dry. When the first treatment has dried, apply a liberal coat^{^^} of HYDRO BARRIER 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 LATASIL.

Main Application

Allow any pre-treated areas to dry to the touch. Apply a liberal coat^{^^} of HYDRO BARRIER with brush or roller over substrate including pre-treated areas. Apply another liberal coat^{^^} of HYDRO BARRIER Plus over the first coat of HYDRO BARRIER. 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. HYDRO BARRIER will dry to darker blue color when fully cured. Use additional HYDRO BARRIER to seal defects.

Movement Joints

See HYDRO BARRIER Installation Instructions 105.5.

Note: Apply a liberal coat^{^^} of HYDRO BARRIER, approximately 8" (200 mm) wide over the areas. Then top coat with a second coat^{^^} of HYDRO BARRIER.

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 12 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 BARRIER™ Plus has dried to the touch, ceramic tile, stone or brick may be installed by the thin bed method with a Thin-Set Mortar. Allow HYDRO BARRIER Plus to cure 12 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 HYDRO BARRIER.

Drains & Penetrations

Use 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.

Movement 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 LATASIL and backer rod.

Spray Application of HYDRO BARRIER™ Plus

Follow all installation and surface preparation requirements outlined in this document and DS 105.5 and TDS 410. The sprayer being used for the application of HYDRO BARRIER Plus 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 HYDRO BARRIER 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 HYDRO BARRIER film^{^^} with an overlapping spray. The wet film has a light blue appearance and dries to a darker blue color. When the first coat has dried to a uniform darker blue 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. 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 HYDRO BARRIER is being dispensed to ensure that the appropriate thickness and coverage is achieved. Bounce back and over-spray will consume more product. To achieve the required performance the coating must be free from pinholes and air bubbles. Do not back roll the spray applied coating. Allow the HYDRO BARRIER to cure in accordance with the instructions in this document, DS 1216 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 HYDRO BARRIER should be taped off and protected from any potential over-spray. Expansion and movement joints should be honored and treated as outlined in this document, DS 1216 and TDS 410.

Cleaning

While wet, HYDRO BARRIER Plus can be washed from tools with water.

^{^^}Wet Coat Thickness is 15-22 mils, 0.015"-0.022" (0.4-0.6 mm); consumption per coat is ~0.01 gal/ft² (~0.4 l/m²); coverage per coat is ~100 ft²/gal (~2.5 m²/l). Use a wet film thickness gauge to check thickness.

6. AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

- 5 Year System Warranty (US) (English)

- 1 Year Product Warranty (US) (English)

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:

Toll Free: 1.800.243.4788, ext. 1235

Telephone: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

Technical and Safety Literature

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

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE® Product Warranty
- DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)
- DS 105.5: HYDRO BARRIER™ Installation Instructions
- DS 633.0: LATAPOXY® 300 Adhesive
- DS 6200.1: LATASIL™
- TDS 152: "Bonding Ceramic Tile, Stone or Brick Over Wood Floors"
- TDS 157: "Exterior Installation of Tile and Stone Over Occupied Space."

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