



HYDRO BARRIER™

HYDRO BARRIER is a single component, seamless, flexible, self-curing, liquid applied waterproofing membrane that bonds directly to a wide variety of substrates for use with under-tile applications.

**For The Builders of
A Better World**



FEATURES/BENEFITS

- Does not require the use of fabric.
- Thin; only 1 mm – 1.2 mm thick when cured.
- Changes from a light green to a dark green to indicate drying.
- Changes in colour, works as coverage guide during application.
- Fast drying for faster time to tile.
- Safe - no solvents and non-flammable.
- Install tile, brick and stone directly onto membrane.

MANUFACTURER

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USES (INTERIOR ONLY)

- Residential internal wet area work.
- Shower recesses, stalls and surrounds.
- Industrial and commercial bathrooms and laundries.
- Kitchens, Countertops and food processing areas.

RECOMMENDED SUBSTRATES (INTERIOR ONLY)

- Gypsum wallboard~
- Cement Backer Board~
- Cement Renders & Plasters
- Cement Mortar Bed
- Cement Terrazzo**
- Ceramic Tile and Stone**
- Cement and Brick Masonry**
- Concrete

** If skim coated with a LATICRETE® latex thin-set adhesive.

~ Some coated or treated boards may be suitable with further preparation. Consult LATICRETE.

PACKAGING

- Trade Unit: 15 litre pail; 36 pails per pallet
- Mini Unit: 3 x 4 litre carton; 32 cartons per pallet

Approximate Coverage

- Trade Unit (15 litres): 10 m² to 12 m²
- Mini Unit (4 litres): 2.6 m² to 3 m²

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for twelve (12) months if stored at temperatures >4°C and <40°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 a waterproof membrane. When a waterproof membrane is required, use HYDRO BARRIER™ or HYDRO BAN®.
- Must be covered with ceramic tile, stone, brick, dry pack thick bed mortar beds, terrazzo or other traffic bearing finish. Use protection board for temporary cover.
- Not for use beneath cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when a waterproofing membrane is required under plaster finishes.
- Not for use under self-levelling underlayments or decorative wear surfaces.
- 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/720 for thin bed stone installations and external framed facade installations where L=span length.
- Do not use over dynamic expansion joints, structural cracks or cracks with vertical differential movement (See TDS-1025 HYDRO BARRIER Installation Instructions for Australia, for complete instructions).
- Do not use over cracks >1 mm in width.
- Do not use as a vapour barrier (especially in steam rooms).
- For external and immersed installations use LATICRETE® HYDRO BAN Waterproofing Membrane.
- Do not expose to negative hydrostatic pressure or excessive Moisture Vapour Emission Rates (MVER).

Cautions

- Consult SDS for more safety information.
- Some drywall and dry floor sheets are treated with moisture blocking coatings. Check for compatibility prior to installing HYDRO BARRIER directly to these surfaces.
- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 283µg/m²/24hrs as per ASTM F-1869 or 75% relative humidity as measured with moisture probes as per ASTM F-2170.
- For installations with excessive MVER or damp substrate conditions use LATAPOXY® Moisture Shield.
- During cold weather, protect finished work from traffic until fully cured.
- Wet coat thickness is 0.7mm per coat. Use a wet film thickness gauge to check thickness during application.
- For white and light coloured marbles, use a white LATICRETE Latex Portland Cement Thin-set adhesive.
- For green and moisture sensitive marble, agglomerates and resin backed tile and stone use LATAPOXY® 300 Adhesive.
- DO NOT use aromatic solvent based sealants or sealants containing rubber solvents or ketones.
- Allow wet mortars, renders and plasters to dry and cure prior to installing HYDRO BARRIER. Ensure HYDRO BARRIER is cured prior to mortar bed application. Allow an additional 24 hours curing for the application of thicker, wetter beds over HYDRO BARRIER.

- All applications of HYDRO BARRIER must be over LATICRETE PRIMER or LATAPOXY Moisture Shield.
- HYDRO BARRIER will go from a light green to a dark green when dry. The second coat should not be applied until the first coat is fully dry, nominally 4 to 5 hours at 21°C. All flood test times should be after the second coat is fully cured. Refer to flood test section of document.
- Protect from exposure to traffic or water until fully cured.

TECHNICAL DATA

This membrane meets and exceeds the requirements of AS 4858-2004 for use as a fully bonded Internal Wet Area Membrane.

Applicable Standard

AS/NZS4858-2004 as per CSIRO

DESCRIPTION	VALUES
Classification	Class 3
Bond Relief required	Minimum 12 mm
Moisture vapour transmission	2.43g/m ² /24 hours

Working Properties

HYDRO BARRIER 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, ensure substrate will not show through HYDRO BARRIER if coated with 1 mm – 1.2 mm of dried membrane. Colour changes from a light green to a dark green when fully dried.

INSTALLATIONS

Surface Preparation

Surface temperature must be 10 – 32°C during application. All substrates must be structurally sound, clean and free of airborne contaminants, salt, dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. New concrete slabs shall be damp cured and a minimum of 28 days old before application. Make rough or uneven concrete smooth to a wood float or fine textured finish with a LATICRETE Underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane should meet the requirements of the proposed finish.

Prime all substrates that are to receive LATICRETE HYDRO BARRIER and HYDRO TAPE with LATICRETE PRIMER or LATICRETE PRIMER RTU. Refer to [DS-1236](#) and DS-1293. Refer to TDS-1025 HYDRO BARRIER Installation Instructions Australia.

Pre-Treat Cracks & Joints

Fill all substrate cracks (see limitations), cold joints, and control joints to a smooth finish using a LATICRETE latex fortified thin-set adhesive or HYDRO BAN® Fillet and Sealant.

Pre-Treat Coves and Floor/Wall Transitions

Fill all substrate coves and floor/wall transitions to a smooth finish at changes in plane using a LATICRETE latex fortified thin-set adhesive. Alternatively or as required by substrate manufacturers, detail any joint void and profile with compressible foam or polystyrene void fillers to provide suitable backing for fillets.

Option A See Detail 1A and 1B in [TDS1025](#)

Apply a 12mm bond relief fillet of HYDRO BAN Fillet and Sealant (see [DS-1196](#)) to joints requiring bond relief or fillet as per AS3740 and allow to dry before detailing the membrane over.

Option B See Detail 2A and 2B in [TDS1025](#)

HYDRO TAPE is a self adhesive butyl sealing tape designed for use as a bond-breaker.–

—Can be used in other areas as a transition tape prior to membrane application. Apply LATICRETE HYDRO TAPE see DS-1292 for further information.

Pre-Treat Drains

Membrane to drainage connections maybe made over securely fixed, recessed leak control flanges or embedded/cast in outlets. Flush and fill gaps around flanges and outlets with HYDRO BAN Fillet and Sealant prior to membrane application. Prepare the approved surface prior to the application of the liquid. HYDRO BARRIER can be applied with a paint brush to ensure a minimum 50mm turn down into the outlet. When the first coat has completely dried[^] to the dark green colour, apply a second liberal coat^{^^} of HYDRO BARRIER liquid and allow to dry.

Where a proprietary leak control flange is installed the membrane shall be applied over the top of the integrally fixed flange and be turned down and finished a minimum of 50mm into the flange body. See Detail 3 in TDS1025.

Pre-Treat Penetrations

Pack any gaps around pipes or other penetrations with a suitable LATICRETE latex-fortified thin-set adhesive or sealant and allow to harden/ curing (e.g. LATICRETE 254 Adhesive, HYDRO BAN Fillet and Sealant as required). Apply a liberal coat^{^^} of liquid onto and around penetration. When the first coat has completely dried[^] to the dark green colour, apply a second liberal coat^{^^} of HYDRO BARRIER liquid and allow to dry, see detail 4 in TDS1025. This surface can then be further covered with the HYDRO BARRIER Waterproof membrane to the correct coverage and thickness. See detail 4 in TDS1025.

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 and allow to dry[^] (turns dark green). Immediately apply another liberal coat^{^^} of HYDRO BARRIER over the first dried[^] coat of HYDRO BARRIER. Let top coat dry, approximately, 24 hours at 21°C and 50% RH. When last coat has dried[^], inspect final surface for pinholes, voids, thin spots or other defects. Use additional HYDRO BARRIER to seal defects if required and allow installation to cure.

Protection

Provide protection for newly installed membrane from construction traffic and adverse site conditions.

Flood Testing

Where required, allow membrane to cure fully before flood testing. Typically 5 days with ambient/surface temperatures above 21°C with 50% R/H. Cold and/or wet conditions will require a longer curing time. For surface/ambient temperatures between 10 - 21°C allow a longer time to cure. Allow 1 day after cure prior to flood testing.

Installing Finishes

Installation of ceramic tile, stone or brick may be carried out after the HYDRO BARRIER Membrane has dried and cured for 24 hours at 21°C @ 50% RH. Do not use solvent-based adhesives directly on HYDRO BARRIER.

[^]Nominally 4 – 5 hours at 21°C

^{^^}Wet coat thickness is an average thickness of 0.7 mm.

Drains & Penetrations

Use LATASIL™ silicone sealant between protrusion and finished tile 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 half the 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 provision for expansion at coves, corners, other changes in substrate plane and over any expansion joints in the substrate. Movement joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in the Australian Standard AS3958 or use LATASIL™ silicone sealant for movement joint construction.

Cleaning

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

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information:

Toll Free: 1800 331 012

Telephone: 07 3865 1599

For online distributor information, visit LATICRETE at www.laticrete.com.au

Cost

Contact a LATICRETE Distributor in your area.

MAINTENANCE

LATICRETE and LATAPOXY grouts, sealers and sealants require routine maintenance and cleaning with a neutral pH detergent and water. See TDS 1113 for more information.

All other LATICRETE and LATAPOXY non-finish materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

TECHNICAL SERVICES

Technical assistance

Information is available by calling:

Toll Free: 1800 331 012

Telephone: 07 3865 1599

Fax: 07 3865 2250

Technical and safety literature

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

DISCLAIMER

- The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.
- This information is subject to change without notice and it is the responsibility of the user to obtain up-to-date and current information.
- The use of this product is beyond our control and LATICRETE is not responsible for any loss or damage arising from the incorrect use of this product.
- Efflorescence is a normal condition of Portland cement and is not covered by any warranty. The use of LATAPOXY[®] 310 Stone Adhesive, LATAPOXY 300 Adhesive, LATAPOXY SP-100, SPECTRALOCK[®] PRO Premium Grout[†] and SPECTRALOCK 2000IG will not contribute to any noticeable efflorescence.

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[†] United States Patent No.: 6,881,768 (and other Patents).