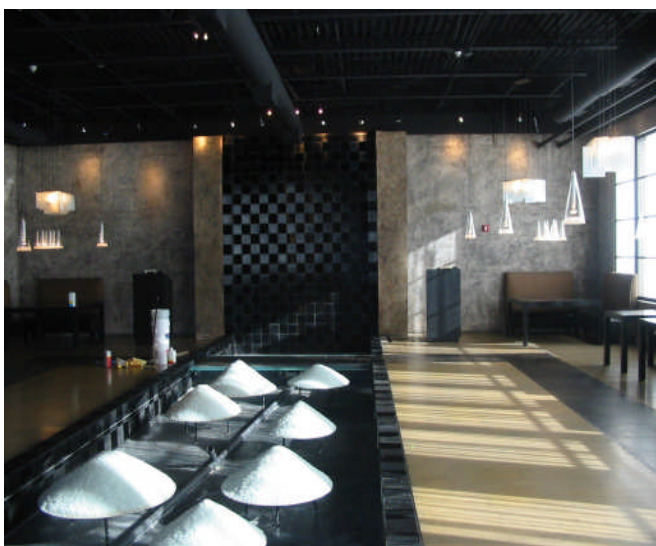




LATICRETE[®] Hydro Ban[™]

DS-663aus.0-0509



1. PRODUCT NAME

LATICRETE[®] Hydro Ban[™]

2. MANUFACTURER

LATICRETE Pty Ltd.
29 Telford Street,
VIRGINIA. QLD. 4014.

Telephone: 07 38651599
Toll Free: 1800331012
Fax: 07 38652250
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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 that bonds directly to a wide variety of substrates. LATICRETE Hydro Ban is a low VOC emitting product that has been GREENGUARD certified. LATICRETE Hydro Ban meets the requirements of a Class 3 membrane as per AS/NZS4858-2004.

Uses

- Interior and exterior use.

- Residential Internal wet area work in compliance with AS3740-2004 and the BCA.
- Swimming pools, fountains & water features.
- Shower recesses, stalls and surrounds.
- Industrial and commercial bathrooms and laundries.
- Spas and hot tubs
- Kitchens & food processing areas.
- Terraces & balconies over occupied spaces.
- Countertops and facades
- Steam rooms when used in conjunction with a vapour barrier.

Advantages

- Allows for flood testing in 2 hours after cure at 21°C or higher*.
- Allows for flood testing in 24 hours after cure at 10°C or higher*.
- Does not require the use of fabric
- Bonds directly to copper, steel, stainless steel and PVC for plashing to plumbing fixtures only.
- Thin; only 0.5-0.8mm thick when cured.
- Changes in colour from a light sage to an olive green when cured.
- Changes in colour act as coverage guide during application.
- Anti-fracture protection of up to 3mm over shrinkage and other non-structural cracks~.
- Heavy rating per ASTM C627 "Robinson Floor Test".
- Inhibits stain-causing mould and mildew growth in the substrate with antimicrobial product protection.
- Fast curing; allows foot traffic in 4-6 hours at 21°C, 50% RH.
- Lighter colour for ease of inspection.
- Safe- no solvents and non-flammable.
- Install tile, brick and stone directly onto membrane.

~ For gaps 3mm or less see data sheet 663.5aus

* Refer to cautions section for more information on curing.

Suitable Substrates

- Concrete
- Concrete and brick masonry
- Cement mortar beds
- Cement plaster
- Gypsum wallboard*
- Exterior glue plywood*

- Ceramic tile and stone**
- Cement terrazzo**
- Cement backer board***

*Interior application only

**If skim coated with a LATICRETE Latex Thin-Set Mortar.

***Contact cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use

Packaging

Commercial Unit: 18.9 litre pail liquid (36 commercial units/pallet)

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

Approximate Coverage

Commercial Unit: 23.2 m²

Mini Unit: 4.6 m²

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >0°C and <43°C.

Limitations

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE® Waterproof Membrane.
- 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 over dynamic expansion joints, structural cracks or cracks with vertical differential movement (See LATICRETE Hydro Ban™ How To Installation guide, DS-663.5aus, for complete instructions).
- Do not use over cracks >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.
- 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 @ 10°C and 50% RH and 2 hours @ 21°C and 70% RH before flood testing); flood test prior to applying tile or stone. Membrane must be <3.2 mm thick.
- During cold weather, protect finished work from traffic until fully cured.
- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 2.43kgs/100m²/24hour per ASTM F-1869 or 75% relative humidity as measured with moisture probes.
- Wet coat thickness is 0.4 to 0.6mm 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-Mortar.
- For green and moisture sensitive marble, agglomerates and resin backed tile and stone use LATAPOXY 300 Adhesive.
- Allow wet mortars/plasters (tilers screed bed consistency) to cure for 72 hours at 21°C prior to installing LATICRETE Hydro Ban. Allow the LATICRETE Hydro Ban a minimum 2 hours cure at 21°C prior to flood testing in these conditions.
- For temperatures between 10–21°C allow 24 hours prior to flood testing.
- 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.
- 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 Standards for Low Emitting Products in finished form.

Total VOC's	0.25mg/m ³
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Applicable Standard

AS/NZS4858-2004 as per CSIRO

Description	Value
Classification	Class 3
Elongation	>550%
Bond Breaker required	Minimum 12mm
Moisture vapour transmission	0.51g/m ² /24hours

Physical Properties as per ANSI A118.10 and A118.12

Physical Property	Test Method	Hydro Ban
7-day Hydrostatic test	ANSI A118.10	Pass
7-day Tensile strength	ANSI A118.10	1.8-2.0 MPa
7-day Water Immersion	ANSI A118.10	0.7-.83 MPa
7-day Shear Bond	ANSI A118.10	1.4-1.9 MPa
28-day Shear strength	ANSI A118.10	1.5-2.3 MPa
System Crack Resistance Test	ANSI A118.12.5-4	Pass (high)

Working Properties

LATICRETE Hydro Ban can be applied using a paint brush, roller or trowel. LATICRETE Hydro Ban may also be applied with airless spraying equipment, please contact LATICRETE for further information. 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 0.5–0.8 mm of dried membrane. Color changes from a light sage to olive green when fully cured.

5. INSTALLATION

Surface Preparation

Surface temperature must be 10–32°C during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of airborne contaminants, salt, dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. 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 must not exceed 6 mm in 3 m with no more than 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. DO NOT bond to particle board, luan, Masonite® or hardwood surfaces. For green and moisture sensitive marble, agglomerates and resin backed tile and stone use LATAPOXY® 300 Epoxy Adhesive (refer to Data Sheet 633.0).

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 200 mm wide over substrate cracks, cold joints, and control joints using a paint brush or roller (heavy napped roller cover). LATICRETE 150mm reinforcing fabric can be used to pretreat cracks, joints, coves, 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 <3 mm. Apply bond breaker as per AS3740 if

required. Apply a liberal coat of LATICRETE Hydro Ban approximately 200 mm wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover).

Pre-Treat Drains

Membrane to drainage connections maybe made over concrete and other floors. Where termination of the drainage riser has been made at slab or topping level the membrane shall be turned down and finished a minimum of 50mm into the de-burred, securely fixed riser. Pack any gaps around pipes with a suitable LATICRETE latex-fortified thin-set mortar and allow hardening prior to membrane application. Prepare the approved PVC or metal surface as previously stated just prior to application of the liquid.

Where a drainage flange is installed the membrane shall be applied over the top of the securely fixed flange and be turned down and finished a minimum of 50mm into the flange body. Prepare the approved PVC or metal surface as previously stated just prior to application of the liquid. LATICRETE Hydro Ban can be applied with a paint brush, paint roller (heavy napped roller) or a 5 mm x 4 mm V-notch trowel. When the first coat has dried to a uniform olive green color, apply a second liberal coat of LATICRETE Hydro Ban liquid.

Pre-Treat Penetrations

Allow for a minimum 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 as soon as the first coat is cured. Bring LATICRETE Hydro Ban up to level of tile or stone. When dry, seal flashing with Tile and Stone Sealant.

Main Application

Insert minimum 12mm bond breakers as required per AS3740 for a Class 3 membrane when doing “wet area work”. Use paintable silicone or urethane sealants only for bond breaker beads, Do Not use aromatic solvent based sealants or sealants containing rubber solvents or ketones. 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 and allow to cure (turn dark olive green). Immediately apply another liberal coat of LATICRETE Hydro Ban over the first cured coat of LATICRETE Hydro Ban. Let topcoat dry to the touch, approximately 1–3 hours @ 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 a dark olive green color when fully cured. Use additional LATICRETE Hydro Ban to seal defects.

Expansion Joints

See LATICRETE Hydro Ban Installation Guide 663.5 aus.

Note: Apply a liberal coat of LATICRETE Hydro Ban, approximately 200 mm wide over the areas. Then embed and loop the 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 2 hours @ 21°C and 50% RH.

Flood Testing

Allow membrane to cure fully before flood testing. Flood test typically 2 hours @ 21°C and 50% RH after membrane has cured. Cold and/or wet conditions will require a longer curing time. For temperatures 10–21°C allow more than 24 hours prior to flood testing after cure.

Installing Finishes

Once LATICRETE Hydro Ban has dried to the touch and is dark olive green, 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 a further 2 hours @ 21°C and 50% RH after it is completely dark olive green 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.

^ Refer to Limitations section for unacceptable cracks.

^^ Dry coat thickness is 0.5–0.8 mm; consumption per coat is ~0.4l/m²; coverage per coat is ~2.5 m²/l. LATICRETE 150 mm reinforcing fabric can be used to pretreat cracks, joints, curves, corners, drains and penetrations with LATICRETE® Hydro Ban™.

Drains & Penetrations

Use a suitable paintable Tile and Stone 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.

Expansion 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. 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 Australian Standard AS3958.1 – 2007, Tile Council of North America, Inc. (TCNA) Handbook Installation Method EJ171. Use compatible Tile and Stone Sealant and backer rod.

Cleaning

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

6. AVAILABILITY AND COST

Availability & Cost

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

Toll Free: 1800 331012
Telephone: 03 99336111

For on-line Distributor Information, visit LATICRETE at www.laticrete.com.au

7. WARRANTY

LATICRETE Hydro Ban Waterproofing Membrane is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of ten (10) years from date of purchase subject to the terms and conditions stated in Data Sheet 230.10Paus, LATICRETE Product Warranty. In addition, when used as a component of a LATICRETE System Installation, LATICRETE Hydro Ban Waterproofing Membrane is warranted for a period of ten (10) years from date of purchase subject to the terms and conditions stated in Data Sheet 230.10Saus, LATICRETE System 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

Information is available by calling the LATICRETE Technical Service Hotline (hours 8:00 AM to 5:00 PM EST):

Toll Free: 1800 331012
Telephone: 03 99336111

Technical and safety literature

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

