



Globally Proven
Construction Solutions

Hydapel Waterproofing Membrane

Hydapel Waterproofing Membrane is a two component cementitious seamless waterproofing membrane polymer modified which cures to form a tough flexible membrane to protect all concrete and masonry surfaces against the ingress of water and moisture.



FEATURES/BENEFITS

- No primer required on the substrate before application.
- Can be applied on damp - not moist – substrates.
- Non-toxic, ideal for potable water uses.
- Install tile, brick and stone directly onto membrane.
- Safe — no solvents and non-flammable.
- Excellent bond on the substrates and good adhesion under water impact.
- Smooth & creamy. Easy to apply.
- Good climate resistance.

USES

- Recommended for wall & floor in wet areas such as toilets, bathrooms, and kitchen.
- For cellar walls
- Balconies and terraces
- Sewers
- For Grain Silos
- Surface protection for structural concrete (as protection against CO₂, Chlorides, Sulphate, humidity)

MANUFACTURER/DISTRIBUTED BY

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STANDARDS/CERTIFICATIONS

- ANSI 118.10, American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation
- ASTM D412
- ASTM D4541
- ASTM D2240
- ASTM C836



This product has been certified green under the Singapore Green Building Council.

Suitable Substrates

- Concrete
- Cement Mortar Beds
- Drywall*
- Concrete Masonry
- Brick Masonry
- Cement Plaster

* Consult cement backer board manufacturer and LATICRETE Technical Department for specific installation recommendations and to verify acceptability for exterior use.

Packaging

1 set (36kg /set) consists of:

1 pail of 16L liquid

1 bag of 20kg powder

Approximate Coverage

20 kgs of Hypopel Waterproofing Membrane (powder) with 16 litres of Hypopel Waterproofing Membrane (liquid) can yield approximately 32.3 m² with 2 coats.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year* for powder & two (2) years* for liquid if stored off the ground in a dry area at temperatures >0°C and <40°C.

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

Limitations

- DO NOT bond to particle board, luan, Masonite or hardwood surfaces.
- DO NOT use over dynamic expansion joints, structural cracks or cracks with vertical differential movement
- DO NOT use over cracks >3mm in width.
- DO NOT use as a vapor barrier (especially in steam rooms).
- DO NOT expose to negative hydrostatic pressure, excessive vapor transmission, rubber solvents or ketones.
- DO NOT expose unprotected membrane to sun or weather for more than 30 days.
- Must be covered with ceramic tile, stone, brick, concrete, screeds, terrazzo or other traffic-bearing finish. Use protection board for temporary cover.
- Consult technical service if to be used as a primary waterproofing membrane over occupied space.

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 MSDS for more safety information.

- During wet weather, protect finished work until fully cured.
- May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally.
- Keep out of reach of children.

TECHNICAL DATA

Physical Properties

Test	Test Method	Results
Hydrostatic Test (28 Days)	ANSI 118.10	Pass
Shear Bond Strength to concrete (28 Days)	ANSI 118.10	>1.0N/mm ²
Tensile Strength (28 Days)	ASTM D412	> 1.7N/mm ²
Adhesion Bond Strength to concrete (28 Days)	ASTM D4541	> 0.9N/mm ²
Initial Hardness	ASTM D2240	>70
Elongation	ASTM D412	>158%
Crack Bridging	ASTM C836	No crack @ 2mm

*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.

INSTALLATION

Surface Preparation

Surface temperature must be 8 - 35°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 product. 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.

Pre-Treat Cracks, Joints, Coves/ Corners & Backer Board Joints

Fill all substrate cracks, cold joints, coves/ corners & Backer Board Joints with a liberal coat of Hypopel approximately 200mm wide using a paint brush or roller (heavy napped roller cover). Fold 15cm wide LATICRETE Waterproofing/ Anti-Fracture Fabric in half. Lay it into the coat of wet Hypopel and smooth out any wrinkles. Flash LATICRETE Waterproofing/ Anti-Fracture Fabric 75mm up walls and other vertical surfaces. Press down on LATICRETE Waterproofing/ Anti-Fracture Fabric with brush or roller until liquid “bleeds” through from below. When the first coat has dried, apply second liberal coat of liquid to seal reinforcing LATICRETE Waterproofing/ Anti-Fracture Fabric. 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.

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 Hypopel around penetration opening. Imbed 150 mm LATICRETE Waterproofing/ Anti-Fracture Membrane Fabric and then apply a second coat of Hypopel. Bring Hypopel up to level of tile or stone. When dry, seal flashing with Latasil.

Mixing

Place 16 liters (1 pail) of Hydrolpel Waterproofing Membrane liquid in a clean plastic pail. Do not dilute it. Add 20 kgs (1 bag) of Hydrolpel Waterproofing Membrane Powder to Hydrolpel Waterproofing Membrane Liquid and mix to a smooth, trowelable consistency. Allow mortar to slake for 5 to 10 minutes. Adjust consistency if necessary. Remix and apply with roller, brush or trowel.

Application

Allow any pre-treated areas to dry to the touch. Apply a liberal coat of Hydrolpel with brush or trowel over substrate including pre-treated areas. Apply another liberal coat of Hydrolpel over the first coat. Let topcoat dry to the touch, approximately 1–3 hours* at 21°C and 50% RH. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. Use additional Hydrolpel to seal defects. A minimum of two coats required to form a continuous film of 0.7mm ~ 1mm.

* The curing time will greatly vary depending on substrate, temperature and relative humidity

Installing Finishes

Once Hydrolpel 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 Hydrolpel to cure 24 hours at 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.

Expansion 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 (TCNA) Handbook Installation Method EJ171. Use LATICRETE Latasil and backer rod.

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 21°C and 50% RH.

Cleaning

Clean tools with water.

AVAILABILITY AND COST

Availability

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

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

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

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE South East Asia Pte Ltd warrants that Hydrolpel Waterproofing Membrane is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to the terms and conditions stated.

MAINTENANCE

LATICRETE® and LATAPOXY® grouts require routine cleaning with a neutral pH cleaner (e.g STONETECH® Stone & Tile Cleaner) 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.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

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Technical and safety literature

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