



**For the Builders
of a Better World™**

Hydropel Waterproofing Membrane

Hydropel 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
- No solvents and non-flammable
- Excellent bond on the substrates and good adhesion under water impact
- Smooth & creamy. Easy to apply
- Good climate resistance

MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd
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Taman Desa,
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SUITABLE SUBSTRATES

- Concrete
- Concrete & Brick Masonry
- Drywall*
- Concrete Masonry
- Brick Masonry
- Cement Plaster

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

USES

- Wall and floor in wet areas such as toilets, bathrooms and kitchen
- Balconies and Terraces
- Surface protection for structural concrete (as protection against CO₂, Chlorides, Sulphate, humidity)
- Cellar Walls
- Sewers
- Grain Silos

PACKAGING

- 1 set (36kg/set) consist of:
- 1 Pail of 14L liquid
 - 1 Bag of 22kg powder



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

Approximate Coverage

22kg of Hydropel Waterproofing Membrane (powder) with 14L of Hydropel Waterproofing Membrane (liquid) can yield approximately 30 – 36m² with 2 coats at a consumption rate of 0.5 – 0.6kg/m²/coat

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year* for powder and 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 vapour barrier (especially in steam rooms)
- DO NOT expose to negative hydrostatic pressure, excessive vapour 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, screed, 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
- 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 installation 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

Performance Properties

Test	Test Method	Results
Hydrostatic Test (28 days)	ANSI 118.10	Pass
Water Penetration	DIN 1048	0
Adhesion to Substrate (28 days)	ASTM D4541	≥ 0.6N/mm ²
Shear Bond Strength to Concrete	ANSI 118.10	≥ 1.0N/mm ²
Tensile Strength	ASTM D412	≥ 1.5N/mm ²
Tensile Strength (After Immersion)	ASTM D412	≥ 1.5N/mm ²
Tensile Strength (After Heat Aging)	ASTM D412	≥ 2.5N/mm ²
Hardness (Shore A)	ASTM D2240	≥70
Elongation at Break	ASTM D412	≥150%
Crack Bridging	ASTM C836	No cracks @ 2mm
Water Permeability Test	DIN 1048	Pass
Non-Toxicity Test	SS375	Pass
Set to Touch	ASTM D1640	≤ 2 hours
Hydrostatic Pressure Resistance	ASTM D5385	Pass

Working Properties

Pot Life (25°C)	2 Hours
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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

INSTALLATION

Surface Preparation

All surfaces should be between 8°C and 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 products. Pre-wet hot or dry surfaces and sweep off excess water. 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 Hydropel Waterproofing Membrane approximately 200mm wide using a paint brush or roller (heavy napped roller cover). Fold 15cm wide LATICRETE Anti-fracture fabric 75mm up walls and other vertical surfaces. Press down on Waterproofing/Fabric with brush or roller until liquid “bleeds” through from below. When the first coat has dried, apply second liberal coat or liquid membrane to seal reinforcing Waterproofing/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 3mm 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 Hydropel Waterproofing Membrane around penetration opening. Imbed 150mm Waterproofing/Fabric and then apply a second coat of Hydropel. Bring Hydropel up to level of tile or stone. When dry, seal flashing with LATASIL®

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

Mixing

Place 14L (1 pail) of Hydropel Waterproofing Membrane liquid in a clean plastic pail. DO NOT dilute it. Add 22kg (1 bag) of Hydropel Waterproofing Membrane Powder to the liquid and mix to a smooth, trowel-able consistency. Allow mortar to slake for 5 – 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 Hydropel with brush or trowel over substrate including pre-treated areas. Apply another liberal coat of Hydropel 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 Hydropel 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 Hydropel Waterproofing Membrane has dried to the touch, ceramic tile, stone or brick may be installed by the thin bed method with a LATICRETE Thin-set Mortar. Allow Hydropel 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 LATASIL and backer rod

Cleaning

Clean tools with water

AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide

For distributor information, call:

Telephone: +603 7989 9188

Fax: +603 7972 0331

For online distributor information, visit LATICRETE at <https://ma.laticrete.com>

Cost

Contact a LATICRETE distributor in your area

WARRANTY

LATICRETE (Malaysia) Sdn Bhd warrants that Hydropel 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 subjected to terms and conditions stated

MAINTENANCE

LATICRETE grouts require routine cleaning with a neutral pH detergent and water. All stone and tiles should be maintained and sealed with STONETECH® products as appropriate for the specific tile / stone and installation situation

All other LATICRETE materials require no maintenance, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers

TECHNICAL SERVICE/CONTACT

Technical Assistance

Information is available by calling:

LATICRETE (Malaysia) Sdn Bhd
#18-08, Faber Tower 2, Jalan Desa Bahagia,
Taman Desa, 58100 Kuala Lumpur,
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Technical and safety literature

To acquire technical and safety literature, please visit our website at <https://ma.laticrete.com>