



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

H2Opel Waterproofing Membrane

H2Opel Waterproofing Membrane is a two component, flexible polymer modified membrane designed to protect substrates such as concrete & masonry from the ingress of water vapour/ 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.
- 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

MANUFACTURER/DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd
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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
- DIN 1048 Pt5



This product has been certified green by Singapore Green Building Council.

Suitable Substrates

- Concrete
- Cement Mortar Beds
- Cement Backer Board**
- Gypsum Wallboard*
- Concrete Masonry
- Cement Terrazzo
- Brick Masonry
- Cement Plaster

* Interior use only.

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

Packaging

1 set (36kgs/set) consists of:

1 pail of 14kg liquid and 1 bag of 22kg powder

Approximate Coverage

22 kgs of H2Opel Waterproofing Membrane (powder) with 14kg of H2Opel 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 $\geq 0^{\circ}\text{C}$ and $\leq 40^{\circ}\text{C}$.

* 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
Shear Bond Strength to concrete	ANSI 118.10	$\geq 1.0\text{N/mm}^2$
Adhesion to substrate (28 days cure)	ASTM D4541	$\geq 0.5\text{ N/mm}^2$
Tensile Strength (standard)	ASTM D412	$\geq 1.5\text{N/mm}^2$
Tensile Strength (after immersion)	ASTM D412	$\geq 1\text{ N/mm}^2$
Tensile Strength (after heat aging)	ASTM D412	$\geq 1\text{ N/mm}^2$
Water Penetration	DIN 1048	Pass
Hardness (Shore A)	ASTM D2240	≥ 60
Elongation at break	ASTM D412	$\geq 150\%$
Crack Bridging	ASTM C836	No crack
Set to touch	ASTM D1640	$\leq 2\text{ hours}$
Hydrostatic Pressure Resistance	ASTM D5385	Pass

Working Properties

Pot Life (25°C)	2 hours
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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 5°C - 40°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.

All slabs must be plumb and true to within 6mm in 3m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI Specification A108.01-3.7 "Requirements for Expansion Joints" or TCA Details EJ-171 "Expansion Joints". Do not cover expansion joints with waterproof.

Mixing

Place 14 kg (1 pail) of H2Opel Waterproofing Membrane liquid in a clean plastic pail. Do not dilute it. Add 22 kgs (1 bag) of H2Opel Waterproofing Membrane Powder to H2Opel 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

Apply with brush or trowel on substrate prepared for waterproofing membrane. A minimum of two coats required to form a 1 mm continuous film. Apply the second layer after first coat is dry to touch.

Application Conditions:

Substrate Temperature: 5°C to 40°C, Ambient Air Temperature: 10°C to 40°C, Relative Humidity: Maximum 80%, Substrate Moisture Content: Shall not exceed 17.0% (By EXTECH Moisture Meter)

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 H2Opel 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:

LATICRETE South East Asia Pte Ltd

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(Level 2, A3)

Singapore 729245

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Technical and safety literature

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

Disclaimer

LATICRETE is not responsible for product use beyond its intended application. Liability is limited to replacing defective materials. We are not responsible for any loss or damage resulting from improper use. Product specifications are subject to change without notice. For the most up-to-date information, please visit our website at se.laticrete.com.