For the Builders of a Better World™

VAPEX WATERPROOFING MEMBRANE

Vapex Waterproofing Membrane is a versatile and easy to use exposed waterproofing membrane that provides excellent flexibility & protection of substrates from water penetration & ultra violet rays. Ideal for use on all rooftops, terraces and balconies floor and walls

FEATURES/BENEFITS

- Easy to install – applies like paint
- Protects substrates from water damage
- Excellent resistance in high & low temperature
- Excellent adhesion on substrates without use of primer
- Able to bridge cracks up to 3mm

PACKAGING / COLOUR

25KG/pail; 24 pails per pallet
Grey and White colour

MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd
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Taman Desa,
58100 Kuala Lumpur, Malaysia
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Website: https://ma.laticrete.com

SUITABLE SUBSTRATES

- Concrete
- Existing steel structure/roofing
- Concrete & brick masonry
- Cement mortar beds
- Cement plaster
- Waterproofed glue plywood
- Gypsum wallboard*
- Ceramic tile & stone**
- Cement terrazzo**
- Cement backer board***

*Interior applications only
**This type of substrate should be laid with LATICRETE Latex Thin-set Mortar prior to application
***Consult cement backer board manufacturer and LATICRETE Technical Department for specific installation recommendations and to verify acceptability for exterior use

USES

- Interior and exterior
- Rooftops, roof terraces
- Balconies
- Over existing metal roof

SINGAPORE GREEN BUILDING PRODUCT SGBC LEADER

This product has been certified green under Singapore Green Building Council

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Approximate Coverage

25kg of Vapex Waterproofing Membrane yields approximately 20 – 25m^2 with a consumption of 0.5 – 0.6kg/m^2/coat

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 < 40°C

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
- Consult technical service if to be used as a primary waterproofing membrane over occupied space
- LATICRETE concrete overlay's are not intended to be perfectly homogeneous in appearance. Shade of colour may vary slightly as these use natural mined resources. The typical application procedures of spreading and smoothing, along with the sanding process, will result in optical variations in the appearance of the floor. The aesthetic appearance that is created is subject to possible technical and artistic tolerances. Variations in the overall finished appearance should be expected
- Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick ad 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. Inc ase of contact, flush thoroughly with water
- Do not take internally
- Keep out of reach of children

TECHNICAL DATA

Performance Properties

Test	Test Method	Results
Adhesion to Substrate (28 days)	ASTM D4541	≥ 1.2N/mm^2
Tensile Strength (Standard)	ASTM D412	≥ 1.8N/mm^2
Elongation at Break	ASTM D412	≥ 450%
Crack Bridging	ASTM C836	No Crack
Water Penetration	DIN 1048	0
Shore A Hardness	ASTM D2240	≥ 70
Puncture Resistance	ASTM E154	≥ 500N
Tear Resistance	ASTM D624	≥ 20kN/m
Peel Strength (Adhesion to Concrete)	ASTM D903	≥ 20N
Water Vapour Transmission	ASTM E96	≤ 7g/m^2.24h
QUV Accelerated Weathering	ASTM G154	No cracking, blistering & delamination
Permeance	ASTM D1653	≤ 70 (ng/Pa.s.m^2)
Diffuse Daylight Reflectance %	ASTM E971	≥ 80%

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

Working Properties

Vapex Waterproofing Membrane can be applied using a paint brush, roller or trowel. Where movement is expected, Anti-Fracture Fabric / reinforcing mesh is recommended to be used to embed within liquid membrane. All areas must have at least two coats to ensure waterproofing capabilities. When using a paint roller, substrate

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will not show through Vapex Waterproofing Membrane.

INSTALLATION

Surface Preparation

Surface temperature must be 8°C - 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, and control joint to a smooth finish using a LATICRETE Latex Fortified Thin Set Mortar. Alternatively, a liberal coat of Vapex Waterproofing Membrane applied with a paint brush or trowel may be used to fill in non-structural joints and cracks less than 3mm. Apply a liberal coat of Vapex Waterproofing Membrane approximately 200mm wide over substrate cracks, cold joints, and control joints using a paint brush or roller (heavy napped roller cover).

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 Vapex Waterproofing Membrane applied with a paint brush or trowel may be used to fill in cove joints and floor/wall transitions <3mm. Apply a liberal coat of Vapex Waterproofing Membrane approximately 200mm wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover). Imbed 150mm Anti-fracture Fabric (if necessary) and then apply a second coat of Vapex Waterproofing Membrane.

Pre-Treat Drains

Drains must be of the clamping ring type, with weepers and as per ASME A112.6.3. Apply a liberal coat of Vapex Waterproofing Membrane liquid around and over the bottom half of drain clamping ring. Imbed 150mm Anti-fracture Fabric (if necessary) and then apply a second coat of Vapex Waterproofing Membrane. When dry, apply LATASIL® where the Vapex Waterproofing Membrane meets the drain throat. Install top half of drain clamping ring.

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 Vapex Waterproofing Membrane around penetration opening. Imbed 150mm Waterproofing / Reinforcing Fabric and then apply a second coat of Vapex Heat Reflective Waterproofing Membrane. Bring Vapex up to level of tile or stone. When dry, seal flashing with LATASIL®

Priming

Substrate must be sound, clean & free of dust, if not it is strongly recommended to use Admix & Primer. Shake thoroughly before using. Pour, mop, or spray primer onto the surface. Apply an even thickness of primer to the prepared substrate using a bristle broom to ensure the primer is absorbed into the substrate, removing any puddles or thick areas.

Allow the primer to dry to a clear film usually 30 – 45 minutes, but less than 3 hours before application of Vapex Waterproofing Membrane.
Note: Keep primed surface clean. Do not allow any foot traffic onto surface

Mixing

Use direct from pail

Application

Allow any pre-treated areas to dry to the touch. Apply a liberal coat Vapex Waterproofing Membrane with brush or roller over substrate including pre-treated areas. Then embed the 150mm wide Anti-fracture Fabric and allow to bleed through (if necessary). Let topcoat dry to the touch, approximately 1 – 3 hours at 21°C and 50% RH

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Apply second coat of Vapex Waterproofing Membrane. When second coat has dried to the touch, inspect final surface for pinholes, voids, thin spot or other defects. Use additional Vapex Waterproofing Membrane to seal defects. 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.

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

While wet, Vapex Waterproofing Membrane can be washed using 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 Vapex 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:

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Technical and safety literature

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