



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

ROOT LOCK MEMBRANE

Root Lock Membrane is a one-component, strong & durable liquid applied waterproofing membrane that cures into a flexible, high adhesion membrane that provides a green solution for planter & landscaping applications. It contains special fillers to prevent roots from puncturing through the membrane



FEATURES/BENEFITS

- Excellent resistance in high & low temperature
- Excellent adhesion on substrates without use of primer
- Resistance to puncturing, tearing & wearing
- Double usage as a waterproofing membrane & root resistance

PACKAGING / COLOUR

25kg/pail; 24 pails per pallet

MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd
#18-08, Faber Tower 2, Jalan Desa Bahagia,
Taman Desa,
58100 Kuala Lumpur, Malaysia
Tel: +603 7989 9188 Fax: +603 7972 0331
Website: <https://ma.laticrete.com>

SUITABLE SUBSTRATES

- | | |
|------------------------------------|-----------------------------|
| ▪ Concrete | ▪ Waterproofed glue plywood |
| ▪ Existing steel structure/roofing | ▪ Gypsum wallboard* |
| ▪ Concrete & brick masonry | ▪ Ceramic tile & stone** |
| ▪ Cement mortar beds | ▪ Cement terrazzo** |
| ▪ Cement plaster | ▪ 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
- Swimming pools, fountains and water features
- Spas and hot tubs
- Planter boxes



This product has been certified green under Singapore Green Building Council

Approximate Coverage

25kg of Root Lock Membrane yields approximately 20 – 25m² per 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 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
- 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 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
Crack Bridging	ASTM C836	No cracks @ 2mm
Shore A Hardness	ASTM D2240	> 82
Tensile Strength (28 days)	ASTM D412	> 2.2N/mm ²
Elongation at Break	ASTM D412	> 370%
Root Resistance Test	Lupine Test, DIN 4062	Excellent
Resistance to Water Penetration (mm)	DIN 1048	0
Water Vapor Transmission	ASTM E96/E96M	< 5g/m ² .24hr

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

Root Lock Membrane can be applied using a paint brush, roller or trowel. All areas must have two coats to ensure waterproofing capabilities

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 Root Lock 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 Root Lock 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 Root Lock 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 Root Lock Membrane approximately 200mm wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover).

Main Application

Allow any pre-treated areas to dry to the touch. Apply a liberal coat of Root Lock Membrane with brush or roller over substrate including pre-treated areas. Apply another liberal coat of Root Lock Membrane over the first coat of Root Lock Membrane. 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 spot or other defects. Use additional Root Lock Membrane to seal defects. Allow membrane to cure fully before flood testing, typically 24 hours at 21°C and 50% RH. Cold and/or wet conditions will require a longer curing time. For temperatures 7-21°C allows 3 days prior to flood testing.

Allow Root Lock Membrane to cure 24 hours at 21°C and 50 RH, before installing ceramic tile stone, brick or covering with concrete, thick bed mortar, screeds, toppings, coatings, epoxy adhesive, terrazzo, moisture sensitive resilient or wood flooring.

Do not use solvent-based adhesives directly on Root Lock membrane.

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, Inc (TCNA) Handbook Installation Method EJ171. Use LATICRETE LATASIL and backer rod.

Mixing

Use direct from pail

AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide

For distributor information, call:

Telephone: +03 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 Root Lock 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
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Telephone: +603 7989 9188
Fax: +603 7972 0331
Email: enquiry@laticrete.com.my

Technical and safety literature

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