



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

Hydrolinate Waterproofing Membrane

Hydrolinate Waterproofing Membrane system for below grade construction is designed to provide flexibility to perform over a wide range of installation technique, weather, substrates and conditions. It is a special composite high performance water, vapour and gas proofing membrane comprising of a thick HDPE (High Density Polyethylene) layer, a unique pressure sensitive adhesive and a trafficable weather resistant protective coating. Hydrolinate Waterproofing Membrane is a pre-applied type of membrane that bonds intimately with fresh concrete to form a continuous bond and prevent migration of water around the structure.



FEATURES/BENEFITS

- Complies with international code of practices
- Achieved Grade 1, 2 and 3 waterproofing protection under BS8102 : 2009
- Pre-applied, completely seals the concrete from water ingress
- Excellent chemical resistance against aggressive elements
- Membrane not affected by ground settlement
- Provides a barrier to underground water, vapour and gas
- Trafficable immediately after installation and ready for immediate placing of reinforcement
- Unaffected by weathering
- Safe and non-hazardous application

USES

- Basement slab and wall
- Civil tunnels
- Earth retaining structure including blind side application etc

MANUFACTURER

LATICRETE South East Asia Pte Ltd
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STANDARDS/CERTIFICATIONS

- | | | |
|----------------|---------------|----------------|
| ▪ ASTM C1305 | ▪ ASTM D5385 | ▪ ASTM D570-22 |
| ▪ ASTM D412-16 | ▪ BS EN 1928 | |
| ▪ ASTM E96 | ▪ BS EN 13967 | |
| ▪ ASTM E154 | ▪ ASTM D1970 | |
| ▪ ASTM D903-98 | ▪ BS EN 1548 | |



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

Packaging

Hydrolinate Waterproofing Membrane comes in 30m x 1.20m x 1.20mm per roll.

Hydrolinate Waterproofing Membrane Tapes comes in 50m x 120mm per roll.

Coverage

Hydrolinate Waterproofing Membrane can yield 31.5m², including lapping joint.

TECHNICAL DATA**Performance Properties**

Test	Test Method	Results
Tensile Strength	ASTM D412-16	L ≥ 31 MPa T ≥ 28 MPa
Elongation	ASTM D412-16	L ≥ 950% T ≥ 1,160%
Peel Adhesion (Adhesion to Concrete)	ASTM D903-98	≥ 2,300 N/m
Hydrostatic Pressure Resistance	ASTM D5385	No water leakage
Puncture Resistance	ASTM E154	≥ 1,260 N
Lateral Water Migration	ASTM D5385	No lateral water migration
Watertightness Test (7 bar for 24 hrs, Immersion in Saturated for 28 days)	BS EN 1928	No leakage
Watertightness Test (7 bar for 24 hrs, Exposed to Bitumen for 28 days)	BS EN 1928	No leakage
Defomation under Load	BS EN 13967	<2.26%
Flexibility at Low Temperature	ASTM D1970	No visible signs
Change in Mass	BS EN 1548	6%
Change in Young's Modulus	BS EN 1548	-10%
Water Absorption (After 24hrs immersion)	ASTM D570-22	0.16%
Water Vapour Transmission	ASTM E96	0.10 g/m ² .24hrs
Crack Bridging	ASTM C1305	No crack to a width of 3.2mm

INSTALLATION**Horizontal application**

Place the membrane with the removable plastic sheet facing up. End laps should be staggered to avoid a buildup of layers. Overlap subsequent sheet 75mm along the selvedge edge. For end lap, overlap a minimum of 75mm and apply Hydrolinate Waterproofing Membrane Tape. During application, ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Ensure a

continuous bond is achieved and roll firmly. On completion of installation, remove the release liner from the membrane.

Vertical application for confine space

Place the membrane with the HDPE side onto the substrate. Secure the membrane by mechanical fastening along the overlapping edge of the membrane. Apply subsequent sheet along these edges to fully cover the fasteners. Ensure a continuous bond along the laps before removing the membrane release liner. Any additional fastener on the membrane surface which are not covered by the subsequent sheet shall be covered over by Hydrolinate Waterproofing Membrane tape.

Vertical application with working space

For application onto external side of retaining wall with working space, use Hydrolinate Waterproofing Membrane post applied membrane. The surface of the substrate to be applied shall be clean, dry and free from contamination. Remove the plastic release liner and adhere the membrane directly onto the concrete substrate. Overlap subsequent sheet by 75mm for both side and end laps.

Pouring of concrete

Ensure all the plastic released liners are removed from the membrane. It is recommended that the concrete be poured within 48 days after the complete removal of the release liner.

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 Hydrolinate 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 in Data Sheet.

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