

Lambert® Macproof Membrane 1000

Single component, liquid-applied, elastic polyurethane waterproofing membrane

Description	Lambert Macproof Membrane 1000 is a single component moisture-cured polyurethane coating which cures to form a flexible, monolithic waterproofing membrane.
Uses	<p>To provide a continuous, seamless, waterproofing membrane. Typical application are foundations and floor slabs, plaza decks, roof decks, terraces, fountains, wetrooms, tunnels, planter boxes, balconies, bathrooms.</p> <p>As an elastomeric waterproofing membrane below concrete or screeds and granite, natural stone, terrazzo or ceramic tiles or paving.</p>
Advantages	<ul style="list-style-type: none">❖ Good adhesion to almost all substrates❖ One-part material that can be used directly from the container with no mixing required❖ Can be applied by brush, roller, squeegee or trowel without the need for heating the material❖ The superior flexibility and elongation properties of Lambert Macproof Membrane 1000 allows expansion and contraction of the substrate, without cracking or becoming brittle. The systems elasticity, flexibility and recovery are not significantly effected with age❖ Horizontal, vertical, or overhead applications easily carried out without problem. Lambert Macproof Membrane 1000 is resistance to rain shortly after application❖ Establish an excellent continuous adhesion to the substrate, mechanical damage is easily identified and repair, also prevents the lateral migration of water along the concrete surface❖ UV stable and does not harden or become brittle❖ Oxidation stability compared to conventional bitumen systems

Properties

The fully cured Lambert Macproof Membrane 1000 produces a highly elastic, crack bridging waterproofing membrane allows expansion and contraction over a broad temperature range and maintains flexibility and waterproofing properties under continuous exposure to water above or below grade.

Typical Data

Colour	Black
Specific Gravity	>1.2
Tensile Strength	>2.1 N/mm ²
Elongation at break	>450%
Recovery (100% Elongation)	100% at 24 hours
Shore A Hardness	>30
Moisture Vapour Transmission	less than 4.2g/m ² /24 hours
Tack Free Time at 25°C	Approx 24 hours
Full Cure	Approx 48 to 72 hours
Solids Content	Greater than 90%
Service Strength	After 7 days
VOC Content	< 15%

Coverage

Coverage to obtain 1.5mm dry film thickness is 1.95kg/m², this thickness will provide the physical and mechanical properties required. For vertical application, it may be necessary to apply 3 coats to achieve a total coverage of 1.95kg/m². Depending on substrate texture and ambient conditions.

Ancillary Products

- ❖ Lambert PU Primer MP
Special primer for use over cementitious / asbestos porous surface.
 - ❖ Lambert McMesh AB Reinforcement Fabric
Non-woven synthetic reinforcement fabric, specially selected to increase the durability of Lambert Macproof Membrane 1000 as a sandwich membrane over areas of stress.
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Application

Surface preparation

New concrete shall be water cured, trowel finished, followed by a light, hair broom and in place for 14 days minimum, 28 days preferred. All surfaces to receive Lambert Macproof Membrane 1000 should be structurally sound, clean, smooth and dry having a light even texture. All loose surface laitance, dirt and dust etc. must be removed by chemical or mechanical means.

Apply a 25mm, 45 degree angle PU sealant cant at the juncture of all vertical and horizontal surfaces including at pipes, vents and other projections.

Installation

Apply Lambert PU Primer MP by roller and let it dry. Then apply Lambert Macproof Membrane 1000 direct from the container with brush, roller or squeegee, working continuously to achieve an even coating. It is applied at a minimum wet film thickness of 1.5mm, where a two coats application is preferred, allowing a 24 hour cure time between coats.

Allow minimum 7 days before overlaying with cementitious materials or top coating.

Reinforcing

Areas of high stress such as cracks and joints must be reinforced by placing a layer of Lambert McMesh AB between the 2 layers of Lambert Macproof Membrane 1000. Please consult technical services for advice and recommendations from your local agent.

Shelf life

Minimum 9 months in original unopened containers.

Clean Up

Equipment and tools should be cleaned with xylene before material cures. Cured material can only be removed mechanically.

Packaging 20kg per pail

Protection The membrane must be protected from damage by future operations and other trades. The applicator shall install protection material applicable to jobsite conditions, to protect the membrane.

Limitation

- ❖ Minimum application temperature 5°C.
- ❖ Lambert Macproof Membrane 1000 should not be thinned with water or solvents.
- ❖ Lambert Macproof Membrane 1000 contains small quantities of solvents. Ensure adequate ventilation in enclosed areas.
- ❖ Protect against fire and sources of ignition.
- ❖ Ensure adequate protective clothing and eye protection during application.
- ❖ If spraying use air fed respiratory protection.

Health & Safety Lambert Macproof Membrane 1000 is classified as harmful and flammable. Impervious gloves and barrier cream should be used. In the event of skin contact, remove immediately and wash with warm soapy water.

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