

# Vulkem Non-Exposed Membrane

## ONE PART URETHANE WATERPROOFING MEMBRANE

### Key Benefits Summary

- Permanently flexible 600%
- Meets requirements of AS3740-2004
- Compatible with TREMfix ceramic tile adhesive
- Primerless single pack product
- Fast curing
- Compatible with Metz C26 tile adhesive
- High strength and puncture resistant
- Vertical and horizontal applications
- Easy to apply
- Resistant to range of chemicals and pollutants

## PRODUCT INFORMATION

### DESCRIPTION

Vulkem Non-Exposed Membrane is a single pack elastomeric, moisture curing high tensile strength and tough curing polyurethane membrane. It cures to form a rubber membrane surface that provides watertight substrates.

Vulkem Non-Exposed Membrane may be used to apply a seamless, monolithic waterproof membrane to concrete substrates, AC sheeting compressed, timber decks which are well anchored and primed. Simple, easy to follow procedures and use of conventional equipment and tools or spray equipment permit fast, sure and secure application.

### BASIC USES

For :

- |  |  |
|--|--|
| <input type="checkbox"/> Wet Areas     | <input type="checkbox"/> Laundries                 |
| <input type="checkbox"/> Roof Terraces | <input type="checkbox"/> Kitchens                  |
| <input type="checkbox"/> Decks         | <input type="checkbox"/> Concrete Substrate Plazas |
| <input type="checkbox"/> Balconies     | <input type="checkbox"/> Shower Recesses           |

### USAGE GUIDELINES

One part urethane, Vulkem Non-Exposed Membrane bonds firmly to clean, dry concrete and well anchored wood substrates. It retains its integrity even if substrate movement causes hairline cracks of up to 1.5mm. If cut or damaged, Vulkem Non-Exposed Membrane will prevent water migration between it and its substrate. Vulkem Non-Exposed Membrane can be finished after a 48-72 hours cure at temperatures over 15.6°C. A Quick Cure Catalyst can be utilized for a fast track application procedures.

### SUBSTRATE PREPARATION

- Concrete should be cured for 21-28 days
- Remove all dirt, dust, plaster, cement droppings, protrusions, oil and other contaminants. Fill screw holes
- To the wall/floor junctions and the floor/hob, hob/wall joints within the shower tray, apply fillet bead of Tremco PU1 Polyurethane Sealant as a bond breaker. Apply sealant around floor penetrations, tap and shower rose and other discontinuities. Floor wastes in concrete shall be cut level with the floor. For sheet flooring, leak control flanges shall be fitted and fully sealed.
- Cracks: non movement and hairline cracks may be filled with a brush coat of Vulkem Non-Exposed Membrane. Movement cracks to be routed out, cleaned and filled with Tremco PU1 Polyurethane Sealant.

### PRIMING

- Vulkem Non-Exposed Membrane is generally a primerless membrane on most clean substrates
- All wood surfaces are to be primed using Vulkem Primer 171
- All metal surfaces are to be primed using Vulkem Primer 181
- Existing urethane membrane surfaces are to be primed using Vulkem Primer 191.

### METHOD OF APPLICATION

- Mix the Vulkem Non-Exposed Membrane to ensure no settlement of the material is in the bottom of the pail and the colour of the material is consistent with no streaks or striations
- All internal wet areas should be waterproofed to meet AS 3740-2004 requirements
- Apply one coat of Vulkem Non-Exposed Membrane at specified coverage rates using both brush, roller or squeegee
- Ensure the membrane is turned down into the floor waste or well sealed around the leak control flange and other penetrations. Ensure flashing angles are properly sealed across doorways. Check for cracks in the membrane when dry and rectify
- Tremco TREMfix Tile Adhesive should be used to adhere tiles directly to membrane
- A light broadcast of sand into the Vulkem Non-Exposed Membrane may be introduced when adhering directly to the membrane

### COVERAGE

- Approximately 1.2L/m<sup>2</sup> at a dry film thickness of 1.0mm (approximately 16m<sup>2</sup> per 18.9L pail) to achieve the waterproof requirements as stated in AS 3740-2004
- Approximately 0.6L/m<sup>2</sup> at a dry film thickness of 0.5mm (approximately 32m<sup>2</sup> per 1.89L pail) to achieve water resistant requirements as stated in AS 3740-2004 (vertical applications).



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## TECHNICAL INFORMATION

### TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Result
Tensile	ASTM D-412	2MPa
Elongation	ASTM D-412	600%
S100	ASTM D-412	414kPa
Hardness (Shore A)	ASTM C-661	20
Peel Strength	ASTM C-794	30lbs,100% coh on concrete
Permeability	E-96	0.12metric perms

UL 790 CLASS A FIRE RATING  
CAN/ULC - S102.2 - M88 CLASS A RATING

### Wet Material Properties

Non Volatile Content	ASTM D-1353	79% min
Viscosity, cps	Brookfield HBT	8-10,000
Cure Time	ASTM D-1640	48 Hours max. @ 25°C - 50% R.H
Flash point	Setaflash	44.4°C

### AVAILABILITY

Vulkem Non-Exposed Membrane is available through your nearest Tremco office.

### HEALTH AND SAFETY PRECAUTIONS

Material Safety Data Sheet must be read and understood before use.

### TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specifications of products. For more detailed information or service and advice call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

### GUARANTEE/WARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specifications and TREMCO standards.

Under this warranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product.

All claims concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

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