



WM12

SINGLE COMPONENT HYBRID POLYURETHANE COATING

Product Overview

WM12 is a single component; cold applied, aliphatic Hybrid polyurethane modified waterproof coating with high elasticity, durability & flexibility. It has a high level of resistance to weathering agents like UV rays, sunlight, frost, rainfall etc.

Product Features

- Water Based
- Single component
- New generation Hybrid Polyurethane based
- Free from dangerous materials like Coal tar & Bitumen
- High elasticity & Flexibility
- High tensile strength & Elongation
- Excellent resistance to weathering agents like UV, sunlight, frost and rain
- Comply with most of environmental & Health regulations
- Eligible for green building regulations such as LEED
- Class III membrane and meets the Australian Standard AS4858, AS4654-12 and AS3740-21

Typical Applications

- WM12 is recommended for Roofs, Terraces, Balconies & Box Gutters
- Wet areas such as Bathrooms, Ensuites in domestic and industrial applications
- As a protective membrane for Polyurethane foam insulation
- Can be used to protect exposed reinforced concrete from carbonation & chloride attack

General Application Details

Surface preparation:

All the substrates must be dry and free of dust, dirt, oil, grease and loose particles. Metal surfaces should be rust free. This can be achieved by wire brushing or grit blasting.

Priming:

A water-based primer is required to seal the pores and stabilise the surface which will enhance the bond strength of the membrane. Read the primers TDS carefully to ensure you have the correct primer for your substrate. For general internal waterproofing over a porous substrate consider TWS – GP21 General primer, TWS - NP23 Non-Porous Primer for smooth, non-porous metal or plastic surfaces & for substrates subject to excess moisture or rising damp, refer to TWS – VP22 Vapour Primer or TWS – EP25 Epoxy Primer.

Application procedure:

- WM12 should be lightly stirred prior to application, and can be applied to both vertical & horizontal surfaces using a brush, roller or airless sprayer
- Apply WM12 to the surface in a two-coat application at a coverage rate of 750mL/m² per coat
- 1.5L/m² (based on a two-coat application) for a dry film thickness of roughly 1mm
- Allow a minimum of 4 hours between coats, to ensure proper bonding do not wait more than 48 hours before applying additional coats
- Prior to a 2nd coat, a close visual inspection should be made for any pinholes or irregularities
- The 2nd coat can be applied at 90° to the first coat

Health & Safety:

WM12 contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. For more details, please refer to the SDS.



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Important Notes

Do not apply over solvent based products
Product does not require reinforcing / Reinforcing material can be added if desired however this will reduce the elongation properties of the product
Product while in a wet state will clean up with water. Once dried, product will need to be removed by mechanical means or with solvent cleaners.

Packaging

- 15 Litre
- 5 Litre pails

WM12 should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

General Technical Data

Drying times	
Drying Time	3-4 hours
Recoat Time	4-8 hours
Full Cure	48 hours
Water Test	3 days

**Based on normal ambient temperatures of 24°C*

Physical Properties	
Density	1.26gm/cc
Solids content	65% ± 2% by weight
Toxicity	Non-Toxic
Appearance	Grey Liquid
Elongation	>600%
Tensile Strength	>1.9MPa
Tear Resistance	8-12N/mm
Minimum Recovery	90%
Application Temperature	-10°C to 50°C
Service Temperature	-30°C to 60°C

Contact Details

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Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Total Waterproofing Supplies does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.