



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 Standards 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. Metal and non porous surfaces should be primed with NP23 (non porous primer).

Priming:

A primer coat is required to seal the pores and stabilize the surface. it will improve the bond strength of the coating. This can be applied by a brush, roller or spray.

Application procedure:

The primer coat should be allowed to dry 30mins – 2 hrs (depending upon the temperature and humidity) before the application of WM12. The primer should be in semi dried (slightly tacky) condition. WM12 can be applied by brush or roller, it can also be applied using an air less spray.

Apply a minimum two coats with undiluted material @1 ltr / m2 per coat for a Wet Film Thickness of 0.65mm thickness per coat (Dry Film Thickness of 1mm after 2 Coats). It is important to ensure that each coat has to be cured totally before applying the next coat. Prior to second coat, a close visual inspection of the surface should be made for any pin holes or surface irregularities. The second coat can be applied at 90° to the first, to ensure a full unbroken coating to the substrate. Clean all the tools with water after use.

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

- 15Litre & 5Litre 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
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	>900%
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 Product Data Sheet (PDS) 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 PDS 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.