



ARDEX WPM 900

Multipurpose Liquid Applied Trafficable Waterproofing Membrane

- Fast drying single component
- Non-hazardous and odourless
- Seamless protection
- Excellent adhesion to various substrate
- Long term flexibility and trafficable
- UV stable
- Low VOC



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DESCRIPTION

ARDEX WPM 900 is a multipurpose water based single component modified polyurethane liquid membrane system with excellent adhesion properties on a wide range of surfaces. It is specially formulated as a ready to use fast drying seamless protective and waterproofing barrier that is hard wearing yet exhibits excellent flexibility. It is suitable for both horizontal and vertical application in UV exposed environments or for use in confined spaces with limited ventilation.

FEATURES & BENEFITS

- Fast drying single component
- Non-hazardous and odourless
- Excellent adhesion to various substrate
- Long term flexibility and trafficable
- UV stable
- Low VOC

APPLICATION RANGE

- RC or metal roofing and environmental decking
- Apply as protective membrane coating system to water retaining structures, substructures, foundations
- Repair or over coating of existing liquid applied waterproofing membranes
- External areas such as suspended structure
- Suitable used with fiberglass reinforcement mesh for heavy duty waterproofing application

SURFACE PREPARATION

The surface to coat should be clean, sound and free of dust, loose particles, grease or any other contaminants. Liquid membrane must be thoroughly dry and if rain is imminent, do not apply the coating. Maximum moisture content of the surface should not exceed 5%.

Steel: Remove surface debris by using water jet washing method. Prime with ARDEX WPM 278 or oxide-based primer if there is existing rust on the surface.

Concrete: Wet blasting or high-pressure water jet blasting is recommended to remove surface contaminants before application of product. Old concrete that are damp or wet, will required at least 24 hours to dry thoroughly and sealing compounds and any other surface contaminants.

All prepared surfaces should be primed with one to two coats of ARDEX WPM 265 Water Based. Allow primer to be dry before applying the membrane.

MIXING

No mixing is required, however stir using a slow speed drill mixer until the colour is consistency and free of lumps. DO NOT RE- TAMPER WITH WATER.

APPLICATION

Apply using rollers, brushers or spraying in several thin coats to ensure a uniform coverage is achieved at dry film thickness of 300 – 800 microns depending on the desired service and substrate type.

For heavy duty waterproofing application, the minimum dry film thickness of 800 microns – 1mm is recommended with in conjunction with fiberglass reinforcement mesh.

Apply one coat at a time and allow each coat has dry completely before applying second or third coat. The recoat interval time is 3 – 4 hours between each coat of ARDEX WPM 900 application.

COVERAGE

Coating system:

Approx. 0.45 – 0.55kg /m²/coat

5-Layer system:

Layer	Product	Consumption (kg/m ² /coat)
1 st coat	ARDEX WPM 265	0.2 – 0.35
2 nd coat	ARDEX WPM 900	0.6 – 0.7
3 rd coat	Woven fiberglass mesh (40- 80gsm)	
4 th coat	ARDEX WPM 900	0.45 – 0.55
5 th coat	ARDEX WPM 900	0.45 – 0.55

PACKAGING

24kg pail of ARDEX WPM 900

SHELF LIFE AND STORAGE

Store in dry conditions, damp-free and preferably palletised. ARDEX WPM 900 has a storage life of not less than 12 months in the original unopened containers.

CLEANING

Tools and equipment should be cleaned immediately with water while still fresh. Removed cure material with mineral turpentine.

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TECHNICAL PROPERTIES

Property	Typical Values
Colour	Grey (other colours upon request)
Service Temperature	10° C to 80° C
Specific Gravity D1644:93 Method A	~ 1.25 – 1.35
Touch dry (tack free)	Approx. 45 - 60 mins
Tensile Strength (Membrane) D412:98a	>2.3N/mm ²
Elongation at break (Membrane) D412:98a	>280% (film aged 7 days, ambient)
Flexibility ASTM D1737	Pass – 180° bend, 3mm mandrel
Water Vapour permeability (System) ASTM E96:95	20 gm/m ² /day (DFT dependent)
Adhesion to substrate (average) ASTM D4541:95	≥1.5 N/mm ²
Exposure to Fungi, Algae SS345:1990 (App B)	Passed
Crack Bridging Test (0.8mm DFT) ASTM C836:95	Passed – Bridge > 2.0mm (no cracks)
Water Penetration Test (positive) DIN 1048:91, Part 5	Passed – No penetration, (0.2kgf/cm ² 12h)
Accelerated Weathering (QUV) ASTM D822A	Passed
Hardness, Shore A ASTM D2240:2000	>65

a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

Malaysia:

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SAFTY PRECAUTIONS

Avoid contact with eyes and wear face mask to prevent dust inhalation. Seek immediate medical assistance should irritation or ingestion occur.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as