ARDEX WPM 120

Torch-Applied Membrane

2.5mm Combined Reinforced APP Bitumen Membrane

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ARDEX WPM 120
Torch-Applied Membrane

PRODUCT DESCRIPTION

ARDEX WPM 120 is an APP (Atactic Polypropylene) plastomeric type modified bitumen waterproofing membrane, consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high grade visco-elastic polymers and reinforced with a combined reinforcement carrier.

ARDEX WPM 120 is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film.

This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

FEATURES AND BENEFITS

APP modified compound

- Excellent cold flexibility to -5°C
- Excellent elongation
- Heat welded laps provide homogenous join
- Prefabricated membrane
- Good elastic memory

Combined reinforcement carrier

- High mechanical characteristics
- High puncture resistance
- Good elongation
- Will not decay

USES

ARDEX WPM 120 is used as a base and or mid layer in multi-layer membrane systems in horizontal or vertical applications for waterproofing balconies, terraces and roofs. ARDEX WPM 120 membrane must be protected from UV.

ACCEPTABLE SUBSTRATES

- Structural or Marine Plywood
- Strandsarking
- Concrete

For use over other substrates including existing membranes contact ARDEX Technical Department.

SURFACE PREPARATION

Surfaces to which ARDEX WPM 180 system is installed much be properly prepared prior to installation. All surfaces must be clean, dry, smooth, free of sharp edges, loose or foreign materials, oils, grease, and other materials that may damage the membrane. If concrete has moisture on the surface use a gas torch to dry and warm the area before priming.

INSTALLATION

The application of ARDEX WPM 120 should be carried out by an approved ARDEX Applicator.

Note: A LBP is required to carry out Restricted Building Work. A LBP must do or supervise this work. They must work within the scope of their licence class.

Installation must be strictly in accordance with the manufacturer's recommendations.

Acceptable substrates to which ARDEX WPM 120 is to be installed must be properly prepared prior to membrane installation.

All surfaces must be dry, clean, smooth, free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Prior to the application of ARDEX WPM 120 the surface should be primed with ARDEX WPM 240 (Shelter Primer). Coverage of the primer will depend on the porosity of the substrate.

ARDEX WPM 120 is fully bonded to the prepared substrate with side laps of 100mm and end laps of 150mm. Overlaps shall be sealed by torch.

ARDEX WPM 120 may be used in various combinations to produce a variety of specifications tailored to suit the individual waterproofing needs.

The exact specification will depend on functional and economic requirements. Advice should be sought for suitable specifications from ARDEX.

STORAGE

All rolls of ARDEX WPM 120 should be stored in a covered area protected against sunlight and UV radiation. Rolls should be stored in a vertical position on a smooth floor so as not to damage the edges.

PACKAGING

Roll size: 1m x 15m

Thickness: 2.5mm

Roll weight: Approximately 45kg

Rolls per pallet: 23

TECHNICAL DATA

The technical data shown is the average results of the Tests, Measurements and Trials carried out on ARDEX WPM 120 Waterproofing Membrane.

CHARACTERISTICS	TEST METHOD	UNITS	NOMINAL VALUE
Length	EN 1848-1	m	15
Width	EN 1848-1	m	1.0
Thickness	EN 1849-1	mm	2.5
Aeric Mass	EN 1849-1	kg/m²	2.9
Heat Stability	EN 1110	ºC	110
Cold Flexibility	EN 1109	ºC	-5
Tensile Strength Ultimate Longation Ultimate Transversal	EN 12311-1 N/5 N/5	 cm cm	 530 400
Elongation at Break Longitudinal Transversal	EN 12311-1	 % %	 35 40
Tear Resistance Longitudinal Transversal	EN 12310-1	 N N	 120 120
Reinforcement	Combined	g.s.m	120
Surface Finishes	Lower [1] Top [2]	torch film sand	

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

All tests have been carried out to UEATC, to tolerances as per European directive.