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# ARDEX WPM 180

## Shelterbit Fibrepol Membrane

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3.5mm Combined Reinforced APP Bitumen Membrane



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# ARDEX WPM 180

## Shelterbit Fibrepol Membrane

### PRODUCT DESCRIPTION

ARDEX WPM 180 (Shelterbit Fibrepol) 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 high quality combined reinforcement of fibreglass and polyester.

ARDEX WPM 180 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 180 is used as a multi-layer membrane in horizontal or vertical applications for waterproofing balconies, terraces and roof. ARDEX WPM 180 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 must 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 180 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 180 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 180 the surface may require priming with ARDEX WPM 240 (Shelter Primer). Coverage of the primer will depend on the porosity of the substrate.

ARDEX WPM 180 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 180 (Shelterbit Fibrepol) 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 180 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 10m

Thickness: 3.5mm

Roll weight: Approximately 42kg

Rolls per pallet: 23

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## TECHNICAL DATA

The technical data shown is the average results of the Tests, Measurements and Trials carried out on ARDEX WPM 180 (Shelterbit Fibrepol) Waterproofing Membrane.

CHARACTERISTICS	TEST METHOD	UNITS	NOMINAL VALUE
Length	EN 1848-1	m	10
Width	EN 1848-1	m	1.0
Thickness	EN 1849-1	mm	3.5
Aeric Mass	EN 1849-1	kg/m <sup>2</sup>	4.2
Heat Stability	EN 1110	°C	110
Cold Flexibility	EN 1109	°C	-5
Tensile Strength Ultimate Longation Ultimate Transversal	EN 12311-1 N/5 N/5	cm cm	720 420
Elongation at Break Longitudinal Transversal	EN 12311-1	% %	40 45
Tear Resistance Longitudinal Transversal	EN 12310-1	N N	130 130
Reinforcement	Combined	g.s.m	180
Surface Finishes	Lower <sup>1</sup> Top <sup>2</sup>	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.

## DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable New Zealand & Australian Standards, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them. © ARDEX New Zealand Ltd 2016. All aforementioned products are the trade marks of ARDEX New Zealand Ltd.