



ARDEX WPM 180

(Shelterbit 180 Membrane)

3.5mm combined reinforced APP bitumen membrane

Cold flexibility to -5°C

Excellent elongation

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(Shelterbit 180 Membrane)

3.5mm Combined Reinforced APP Bitumen Membrane

PRODUCT DESCRIPTION

ARDEX WPM 180 (Shelterbit Fibrepol 180) is an A.P.P. (Atactic Polypropylene) Plastomeric type modified bitumen 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 (polyester and fibreglass).

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

A.P.P. modified compound

- Excellent cold flexibility to -5°C .
- Excellent elongation.
- Heat welded laps provide homogenous joint.
- 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 single layer or multi-layer tanking membrane in horizontal or vertical applications, also for waterproofing balconies, terraces and roofs.

INSTALLATION

The application of ARDEX WPM 180 should be carried out by an accredited applicator.

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

All surfaces to which the ARDEX Shelterbit systems are installed must be properly prepared prior to installation. All surfaces must be clean, dry, smooth, and free of sharp edges, fines, loose or foreign materials, oil, grease and other materials which may damage the membrane. New concrete must be cured a minimum of 28 days prior to the installation.

ARDEX WPM 180

Apply to all surfaces one coat of ARDEX WPM 240 Bituminous Primer at a coverage rate of 5 square metres per litre and allow to dry thoroughly. No primer is required when used as an intermediate layer.

A layer of ARDEX WPM 180 (Shelterbit Membrane) shall be installed over all surfaces to be treated by LPG torch application techniques by an ARDEX accredited applicator. The ARDEX WPM 180 (Shelterbit Membrane) must be fully bonded to the prepared substrate with side laps of 7.5cm and end laps of 10cm. The membrane must be detailed in accordance with ARDEX recommendations.

After all membranes have been installed they shall be protected from mechanical damage by placing ARDEX Protection Board against the membrane. The board shall be fixed using PVC Duct Tape – do not use mechanical fixing that will puncture or penetrate the membrane.

SAFETY PRECAUTIONS

ARDEX WPM 180 is non-hazardous; non-dangerous goods.

However during installation exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

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

Roll weight: Approximately 42kg

Rolls per pallet: 23

TECHNICAL DATA

The Technical Data shown below are the average results of the Tests, Measurements and Trials, carried out on ARDEX Shelterbit Waterproofing Membrane.

Characteristics	Standard	Units	Nom.
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 ²	4.2
Heat stability	EN 1110	°C	110
Cold flexibility	EN 1109	°C	-5
Tensile strength	EN 12311-1		
Ultimate longitudinal		N/5cm	720
Ultimate transverse		N/5cm	420
Elongation at break	EN 12311-1		
Longitudinal		%	40
Transverse		%	45
Tear resistance	EN 12310-1		
Longitudinal		N	130
Transverse		N	130
Reinforcement	Combined	g.s.m.	180
Surface finishes	Lower ¹	torch film	
	Top ²	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.

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 Australian Standard, 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.

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