PRODUCT DESCRIPTION

Ardex WPM 180 (Shelterbit Fibrepol 180) is an APP (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 (Shelterbit Fibrepol 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/BENEFITS

APP modified compound

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

Combined reinforcement carrier

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

USES

Ardex WPM 180 (Shelterbit Fibrepol 180) is used as a multi-layer membrane in horizontal or vertical applications for waterproofing

balconies, terraces and roofs. Ardex WPM 180 (Shelterbit Fibrepol 180) membrane is a sandwich membrane and must be protected from UV.

INSTALLATION

The application of Ardex WPM 180 (Shelterbit Fibrepol 180) should be carried out by an approved Applicator.

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

Acceptable substrates to which Ardex WPM 180 (Shelterbit Fibrepol 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 (Shelterbit Fibrepol 180) base substrate surfaces should be primed with Ardex WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

Ardex WPM 180 (Shelterbit Fibrepol 180) is normally 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 180) may be used in various combinations to produce a variety of specifications tailored to suit the individual waterproofing need.

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

SAFETY PRECAUTIONS

Ardex WPM 180 (Shelterbit Fibrepol 180) is not classified as 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 (Shelterbit Fibrepol 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 here below are the average results of the Tests, Measurements and Trials, carried out on Ardex WPM 180 (Shelterbit Fibrepol 180) Waterproofing Membrane.

Characteristics	**Standard**	**Units**	**Nom.**
Length	UNI EN 1848-1	m	10
Width	UNI EN 1848-1	m	1.0
Thickness	UNI EN 1849-1	mm	3.5
Aeric Mass	UNI EN 1849-1	kg/m^2	4.2
Heat Stability	UNI EN 1110	°C	110
Cold Flexibility	UNI EN 1109	°C	-5
Tensile strength	UNI EN 12311-1		
Ultimate Longitudinal		N/5 cm	720
Ultimate Transverse		N/5 cm	420
Elongation at Break	UNI EN 12311-1		
Longitudinal		%	40
Transverse		%	45

Tear resistance UNI 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.

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