

PRODUCT DESCRIPTION

Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) is an APP (Atactic Polypropylene) plastomeric type modified bitumen membrane slip or base sheet, consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high grade visco-elastic polymers. The product is reinforced with a combination of fibreglass and non-woven polyester.

Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) top surface is protected by a heat sensitive polythene film.

The lower surface of the slip or base sheet is plain uncoated polyester.

PHYSICAL AND CHEMICAL PROPERTIES

APP modified compound

- Excellent elongation
- Cold flexibility -5°C
- Excellent resistance to pollutants
- Good elastic memory

Non-woven polyester mat

- Good mechanical characteristics
- Good dimensional stability
- Good puncture resistance
- Will not decay
- Good elongation

USES

On plywood substrates Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) is normally installed as a base sheet in multi-layer systems fully adhered using Ardex WA98 Adhesive.

Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) has been specifically designed for applications to heat sensitive substrates such as plywood decks or thermal insulation.

Also can be installed as a base-layer on rough or un-even concrete decks.

Overlaps are required to be torch sealed when Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) is used as a vapour control layer or as a secondary-waterproofing layer.

SIDE LAP BONDING DETAIL

To strengthen the lap an overlap of 75mm must be used. This is 25mm of fibre backing and 50mm of plain selvedge. The fibre backing when melted into the lower sheet adds strength to the weld.

END LAP DETAIL

An end lap is formed by overlapping 100mm of fibre backed membrane onto the sheet below. A cap sheet of 150mm Fibrepol 120 is then welded over the end lap to prevent water wicking up the exposed fibre and to reinforce and seal the end lap.

INSTALLATION

The application of Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) 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 116 (Shelterbit Fibre Backed Base Sheet) is to be installed must be properly prepared prior to membrane installation.

Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) 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 116 (Shelterbit Fibre Backed Base Sheet) is not classified as dangerous goods.

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 such as wet adhesive. Follow all local fire codes.

STORAGE

All rolls of Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet) 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 (Fleece is 0.95m wide).

Roll weight: Approximately 29kg

Rolls per pallet: 28

TECHNICAL DATA

The Technical Data shown here below are the average results of the Tests, Measurements and Trials, carried out on Ardex WPM 116 (Shelterbit Fibre Backed Base Sheet).

Characteristics	Standard	Units	Nom.
Length	UNI EN 1848-1	m	10
Width	UNI EN 1848-1	m	1.00
Thickness	UNI EN 1849-1	mm	2.7
Aeric Mass	UNI EN 1849-1	kg/m ²	3.0
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	600
Ultimate Transverse	N/5	cm	350
<hr/>			
Elongation at Break UNI EN 12311-1			
Longitudinal	%		60
Transverse	%		60
<hr/>			
Tear resistance UNI EN 12310-1			
Longitudinal	N		100
Transverse	N		100
<hr/>			
Reinforcement			
Polyester	gsm		150
Glass Fibre	gsm		50
<hr/>			
Surface finishes	Lower ¹	polyester	
	Top ²	torch film	
<hr/>			

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.