



ARDEX WPM 122

Shelterbit HD Bridge Membrane

5.0mm Heavy Duty Bridge & Deck APP Bitumen Membrane

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PRODUCT DESCRIPTION

Ardex WPM 122 (Shelterbit HD Bridge Membrane) 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 high quality non-woven 300g polyester carrier. Ardex WPM 122 (Shelterbit HD Bridge Membrane) 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 -10°C
- Excellent elongation
- Heat welded laps provide homogenous joint
- Prefabricated membrane
- Good elastic memory
- Resistance to aggressive chemicals

Heavyweight non-woven polyester

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

USES

Ardex WPM 122 (Shelterbit HD Bridge Membrane) has been specifically engineered using a heavy weight non-woven carrier for heavy-duty applications, particularly as a membrane under hot melt asphalt or bitumen.

Typical uses are:

- Bridge decks
- Car parks
- Road-ways
- Viaducts

Ardex WPM 122 (Shelterbit HD Bridge Membrane) is a sandwich membrane and must be protected from UV.

INSTALLATION

The application of Ardex WPM 122 (Shelterbit HD Bridge Membrane) 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 122 (Shelterbit HD Bridge Membrane) systems are 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 122 (Shelterbit HD Bridge Membrane) the surface should be primed with Ardex WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

Ardex WPM 122 (Shelterbit HD Bridge Membrane) 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 122 (Shelterbit HD Bridge Membrane) is used as a single layer membrane system which is normally installed prior to the installation of toppings, road base or hot melt asphalt or bitumen.

Application of toppings may be applied on completion. Road base may be installed directly to the membrane without an extra protection layer.

The asphalt should be applied as soon as possible after the Ardex WPM 122 (Shelterbit HD Bridge Membrane) membrane has been installed. Ardex recommend applying a minimum 50mm compacted overlay for carpark areas. The topping should be applied in two layers at a temperature of between 120-150°C.

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

SAFETY PRECAUTIONS

Ardex WPM 122 (Shelterbit HD Bridge Membrane) 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 122 (Shelterbit HD Bridge Membrane) 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 52kg

Rolls per pallet: 16

TECHNICAL DATA

The Technical Data shown here below are the average results of the Tests, Measurements and Trials, carried out on Ardex WPM 122 (Shelterbit HD Bridge Membrane) 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	5.0
Aeric Mass	UNI EN 1849-1	kg/m ²	5.2
Heat Stability	UNI EN 1110	°C	120
Cold Flexibility	UNI EN 1109	°C	-10
Tensile strength	UNI EN 12311-1		
Ultimate Longitudinal	N/5	cm	1,150
Ultimate Transverse	N/5	cm	950
Elongation at Break	UNI EN 12311-1		
Longitudinal		%	45
Transverse		%	50
Tear resistance	UNI EN 12310-1		
Longitudinal		N	200
Transverse		N	200
Reinforcement	Polyester	g.s.m.	300
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.