



ARDEX WPM 555

Shelterbit Phoenix Star (Mineral)

4.1mm + mineral Reinforced APP Bitumen Membrane

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PRODUCT DESCRIPTION

Ardex WPM 555 (Shelterbit Phoenix Star) 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 555 (Shelterbit Phoenix Star) is certified in Great Britain with BBA No 99/3586/C and in Italy with Technical Agreement I.T.C. 591/03.

Ardex WPM 555 (Shelterbit Phoenix Star) is coated with a slate mineral granule topping, 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

- Positive vapour barrier
- Excellent resistance to atmospheric agents cold flexibility -15°C
- Excellent elongation
- Resistant to chemical attacks
- Withstand thermal shocks
- Heat welded laps provides homogenous joint
- Prefabricated membrane
- High puncture resistance

USES

Ardex WPM 555 (Shelterbit Phoenix Star) membrane can be used as a watertight/finishing layer.

Non-accessible flat roofing

Accessible flat roofing

Vault covering

Renovation and refurbishment

INSTALLATION

The application of Ardex WPM 555 (Shelterbit Phoenix Star) 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 555 (Shelterbit Phoenix Star) 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.

Ardex WPM 555 (Shelterbit Phoenix Star) is normally installed in a multi-layer system incorporating Ardex Bitumen membranes or base sheets.

Ardex WPM 555 (Shelterbit Phoenix Star) is fully bonded to plain or base layer. Overlaps are always torch-bonded with a width of 10cm.

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

SAFETY PRECAUTIONS

Ardex WPM 555 (Shelterbit Phoenix Star) 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 555 (Shelterbit Phoenix Star) 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 8m

Roll weight: Approximately 44kg

Rolls per pallet: 23

TECHNICAL DATA

MEMBRANE

Characteristics	Standard	Units	Nom.
Length	UNI EN 1848-1	m	8±1%
Width	UNI EN 1848-1	m	1±1%
Thickness	UNI EN 1849-1	mm	4.1 +mineral
Aeric Mass	UNI EN 1849-1	kg/m ²	5.2
Heat Stability	UNI EN 1110	°C	130
Heat Stability After 6 months at 70°C	UNI EN 1110	°C	130
Cold Flexibility	UNI EN 1109	°C	-15
Cold Stability After 6 months at 70°C	UNI EN 1109	°C	0
Dimensional Stability Longitudinal	UNI EN 1107-1 A	%	≤ -0.3
Transversal			≤ +0.3
Impermeability	UNI EN 1928	kPa	≥ 60
Tensile Strength Longitudinal Ultimate Tensile Strength	UNI EN 12311-1	N/50mm	900
Transversal Ultimate Tensile Strength			700
Elongation at Break Longitudinal	UNI EN 12311-1	%	45
Transversal			45
Tear Resistance Longitudinal			150
Transversal	UNI EN 12310-1	N	150
Resistance to Static Load	UNI EN 12730	kg	25
Mineral Adhesion	UNI EN 12039	%	max 30%

Values are referred to a membrane of:
Thickness 4.1mm + mineral Weight 5.2kg/m²

All tests have been carried out according to UEATC directive

COMPOUND

Characteristics	Standard	Units	Nom.	Tolerances
Ring and Ball	ASTM D 36	°C	150	Valore min
Penetration at 60°C	ASTM D 5	dmm	120	Valore min
Cold Flexibility	UNI EN 1109	°C	-15	Valore min
Cold Stability After 6 months at 70°C	UNI EN 1109	°C	0	Valore min