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# ARDEX WPM 189

## Shelterbit Duo Mineral Membrane

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4.5kg/m<sup>2</sup> Mineral Coated SBS/APP Bitumen Membrane

Excellent resistance to atmospheric agents

Resistant to chemical attacks

High puncture resistance

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### PRODUCT DESCRIPTION

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is a combined APP (Atactic Polypropylene) and SBS (Styrene-Butadiene-Styrene) 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 189 (Shelterbit Duo Mineral Membrane) bottom layer comprises of an SBS compound which gives high elasticity and excellent flexibility at low temperatures. The top layer is then formed from APP modified bitumen which provides good cold flexibility and high resistance to heat and UV rays.

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is coated with a mineral 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 elongation
- Heat welded laps provide homogenous joint
- Prefabricated membrane
- Good elastic memory

SBS modified compound

- Excellent cold flexibility and elasticity
- Excellent resistance to cracking
- Improved dimensional stability

Combined reinforcement carrier

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

### USES

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is used as a multi-layer membrane in horizontal or vertical applications for waterproofing balconies, terraces and roofs.

ARDEX WPM 189 (Shelterbit Duo Mineral) membrane is the final layer in the system.

### INSTALLATION

The application of ARDEX WPM 189 (Shelterbit Duo Mineral) 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 189 (Shelterbit Duo Mineral) 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 189 (Shelterbit Duo Mineral) base substrate surfaces should be primed with ARDEX WPM 247 (Shelterbit Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 189 (Shelterbit Duo Mineral) 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 189 (Shelterbit Duo Mineral) 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 189 (Shelterbit Duo Mineral) 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 189 (Shelterbit Duo Mineral) 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 45kg

Rolls per pallet: 23

Thickness: 4mm

### TECHNICAL DATA

The Technical Data shown here below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 189 (Shelterbit Duo Mineral) Waterproofing Membrane.

Characteristics	Standard	Nom/Units
Length	UNI EN 1848-1	10m
Width	UNI EN 1848-1	1.0m
Aeric Mass	UNI EN 1849-1	4.5 kg/m <sup>2</sup>
Heat Stability	UNI EN 1110	100 °C
Cold Flexibility	UNI EN 1109	-10 °C
Tensile strength	UNI EN 12311-1	
Ultimate		600m
Longitudinal		N/5cm
Ultimate		500m
Transverse		N/5cm
Elongation at Break	UNI EN 12311-1	
Longitudinal		35%
Transverse		35%
Tear resistance	UNI EN 12310-1	
Longitudinal		N 150
Transverse		N 150
Surface finishes	Lower <sup>1</sup> Top <sup>2</sup>	Torch Film Mineral Coated

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to weather.

All tests have been carried out to UEATC Directive.

### 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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