



ARDEX WPM 189

Shelterbit Duo Mineral Membrane

4.5kg/m² 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 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 189 (Shelterbit Duo Mineral Membrane) 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 Membrane) base substrate surfaces should be primed with Ardex WPM 247 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

Ardex WPM 189 (Shelterbit Duo Mineral Membrane) 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 Membrane) 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 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 189 (Shelterbit Duo Mineral 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 45kg

Rolls per pallet: 23

Thickness: 4mm

TECHNICAL DATA

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

| Characteristics | Standard | Nom/Units |
|---------------------|--------------------|----------------------|
| Length | UNI EN 1848-1 | 10m |
| Width | UNI EN 1848-1 | 1.0m |
| Aeric Mass | UNI EN 1849-1 | 4.5kg/m ² |
| 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 ¹ | Torch Film |
| | Top ² | 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

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