



ARDEX WPM 160

3.0 mm Polyester Reinforced APP Bitumen Membrane

Excellent cold flexibility

Excellent elongation

Heat welded laps provide homogenous joint

Good elastic memory

High mechanical characteristics

High puncture resistance

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DESCRIPTION

ARDEX WPM 160 is an A.P.P. (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 polyester reinforcement.

ARDEX WPM 160 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.

USE

ARDEX WPM 160 is used as a single layer or multi-layer tanking membrane in horizontal or vertical applications, also for waterproofing balconies, terraces and roofs.

ARDEX WPM 160 membrane is a sandwich membrane and must be protected from UV.

FEATURES & BENEFITS

A.P.P. modified compound

- Excellent cold flexibility
- Excellent elongation
- Heat welded laps provide homogenous joint
- Prefabricated membrane
- Good elastic memory

Combined reinforcement carrier

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

APPLICATION

The application of ARDEX WPM 160 should be carried out by an accredited applicator.

Installation shall be strictly in accordance with the manufacturer's recommendations.

Acceptable substrates to which ARDEX WPM 160 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 160, the base substrate surfaces should be primed with ARDEX WPM 240 Shelter primer. Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 160 is normally fully bonded to the prepared substrate with side laps of 100 mm and end laps of 150 mm. Overlaps shall be sealed by torch.

ARDEX WPM 160 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.

TECHNICAL DATA

The technical data shown here below are the average result of the Tests, Measurements and Trials, carried out on ARDEX WPM 160 Waterproofing Membrane.

Description	Nominal Values	Tolerance
Length (EN 1848-1):	10 m - 1%	min

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Width (EN 1848-1):	1.0 m - 1%	min
Thickness (EN 1849-1):	3 mm	± 0.2
Flow resistance at elevated temperature (EN 1110):	110°C	min
Flexibility at low temperature (EN 1109):	0°C	min
Tensile strength (max load) EN 12311-1: Longitudinal Transverse:	430 N/50mm 300 N/50mm	-20% -20%
Breaking elongation (EN 12311-1): Longitudinal Transverse	30% 30%	-15 absolute -15 absolute
Resistance to tearing (EN 12310-1): Longitudinal Transverse	130 N 130 N	-30% -30%

Note

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

2) Top surface: exposed to underside of covering membrane.

All tests have been carried out to UEATC, to tolerances as per European Directive.

PACKAGING

Roll size 1m x 10 m

Roll weight: Approximately 37 kg

Roll per pallet: 30

STORAGE

All rolls of ARDEX WPM 160 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.

SAFETY PRECAUTIONS

ARDEX WPM 160 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.

CAUTION:

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent to best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development.

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