



ARDEX WPM 188

(Shelterbit Garden Tanking Membrane)

3.0mm SBS bitumen membrane

Positive vapour barrier

Excellent resistance to pollutants and aging

Good elongation and flexibility

For waterproofing planter boxes, garden beds, roof gardens and flower beds

Contains root inhibitor – stops roots from plants damaging the membrane

High flexibility during application at sub zero temperatures with no physical strain

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DESCRIPTION

ARDEX WPM 188 is an S.B.S. (Styrene Butadiene Styrene) torch applied modified bitumen waterproofing 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 combined reinforcement (fibreglass and polyester) and treated with preventive chemicals to stop roots from plants damaging the membrane.

The exceptional elongation properties of SBS combined with the strength and dimensional stability of the reinforcing, provides an excellent waterproofing membrane for new and existing constructions.

ARDEX WPM 188 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

- Positive vapour barrier.
- Excellent resistance to pollutants and aging.
- High flexibility during application at sub zero temperature with no physical strain.
- Maintains shape stability at high temperatures.
- High resistance to perforation.
- Resists root growth ingress into both the membrane and the laps.
- Good elongation and flexibility.
- Heat welded laps provide an homogenous joint.

USES

ARDEX WPM 188 has been especially formulated for the waterproofing of:

- Planter boxes.
- Garden beds.
- Roof gardens.
- Flower beds.
- Green covered civil works etc.

ARDEX WPM 188 is used as a single layer or multi layer tanking membrane in horizontal or vertical applications, also for waterproofing balconies, terraces and flat roofs.

INSTALLATION

The application of ARDEX WPM 188 should be carried out by an accredited applicator.

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

All surfaces to which the ARDEX Shelterbit systems are installed must be properly prepared prior to installation.

All surfaces must be clean, dry, smooth, and free of sharp edges, fines, loose or foreign materials, oil, grease and other materials which may damage the membrane. New concrete must be cured a minimum of 28 days prior to the installation.

ARDEX WPM 188

Apply to all surfaces one coat of ARDEX WPM 240 Bituminous Primer at a coverage rate of 5 square metres per litre and allow to dry thoroughly.

A layer of ARDEX WPM 188 shall be installed over all positive side surfaces by LPG torch application techniques by an ARDEX accredited applicator. The ARDEX WPM 188 must be fully bonded to the prepared substrate with side laps of 7.5cm and end laps of 10cm. The membrane must be detailed in accordance with ARDEX recommendations. Overlaps shall be sealed by torch.

The ARDEX WPM 188 membrane shall extend to at least 100mm above the backfill level. The top edge of the membrane can be terminated using an ARDEX Pressure Seal to prevent ingress of water behind the membrane.

After all membranes have been installed they shall be protected from mechanical damage by placing ARDEX Protection Board against the membrane before backfilling. The board shall be fixed using PVC Duct Tape – do not use mechanical fixing that will puncture or penetrate the membrane.

Pay attention to the following:

Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (personal protective equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

SAFETY DATA

Avoid contact with skin and eyes; in case of contact with the eyes, wash out immediately with fresh running water. If irritation continues, seek medical attention. Wear protective gloves, clothing, face and eye protection. Suspected of causing cancer. This product is combustible. On combustion, may emit toxic fumes of carbon monoxide (CO). When handling the product do not eat, drink or smoke. Avoid inhaling dust/fume/gas/mist/vapours/spray. If fumes or combustion products are inhaled remove from contaminated area. Ensure adequate ventilation during application. Check with your local Council regarding the disposal of contents. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. At times updates can occur to data. To ensure you have the most current technical and safety information please consult the latest data sheets found on the product page at www.ardexaustralia.com.

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STORAGE

All rolls of ARDEX WPM 188 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 35kg

Rolls per pallet: 28

TECHNICAL DATA

The technical data shown below are the average results of the tests, measurements and trials, carried out on ARDEX WPM 188 waterproofing membrane.

Characteristics	Standard	Value
Length	EN 1848-1	10 m
Width	EN 1848-1	1.0 m
Thickness	EN 1849-1	3.0 mm
Aeric mass	EN 1849-1	3.5 kg/m ²
Heat stability	EN 1110	100°C
Cold flexibility	EN 1109	-20°C
Tensile strength Ultimate longitudinal Ultimate transverse	EN 12311-1	750 (N/5cm) 550 (N/5cm)
Tear resistance Longitudinal Transverse	EN 12311-1	40% 45%
Tear resistance Longitudinal Transverse	EN 12310-1	180 (N) 180 (N)
Reinforcement	Combined	180 g.s.m.
Surface finishes	Lower ¹ Top ²	torch film torch film
Resistance to root penetration	EN 13948	visible (Pass)

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

Note 2) Top surface; exposed to underside of covering membrane.

DISCLAIMER

The technical details, recommendations and other information contained in this datasheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific 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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