



ARDEX WPM 185

Mineral Coated APP Bitumen Membrane

Compliant to AS4654.1

High puncture resistance

APP Bitumen Modified Membrane

Excellent resistance to UV exposure

Available in Grey & White mineral finishes

Excellent resistance to atmospheric agents

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PRODUCT DESCRIPTION

ARDEX WPM 185 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 combined reinforcement (Polyester and Fibreglass).

ARDEX WPM 185 is coated with a slate mineral granule topping, while the bottom surface is embossed and protected by a heat sensitive polythene film.

- To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
- 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

- Compliant to AS4654.1
- Cold flexibility -5°C
- Good elongation
- High puncture resistance
- Excellent resistance to UV exposure
- Excellent resistance to atmospheric agents

USES

ARDEX WPM 185 is used as a capping layer in UV exposed membrane systems for environments such as rooftops, decks, terraces, and tanking environments. The mineral finish allows for light maintenance foot traffic. ARDEX WPM 185 is available in both slate grey mineral and white mineral finishes.

SUBSTRATE PREPARATION

By way of mechanical methods and vacuum cleaning as necessary, remove all dirt, dust, curing compounds, oils, grease, surface sealers, and any other contaminants prior to application. Prepare surface to leave sound, clean, free from sharp edges, loose or other materials which may damage the membrane.

Damaged concrete between 2mm-30mm can be treated with ARDEX A46. Spalling concrete must be treated accordingly with the ARDEX Concrete Repair range such as ARDEX BR 345, please review the respective product data sheets on treating spalling concrete.

SUBSTRATE PRIMING

Prior to the application of ARDEX WPM 185 all prepared concrete surfaces should be primed with ARDEX WPM 240 at a rate of 5m²-6m² per litre and allowed to dry. Coverage rate will depend on the porosity of the substrate being treated.

Note: ARDEX WPM 185 can be used as a single layer UV exposed waterproofing membrane, however it is generally installed within a multi-layer waterproofing membrane system. When used as a capping layer over a base sheet, ARDEX WPM 240 is not required. Ensure the previous base layer is clean, sound, dry, and free from sharp edges, loose, or other materials which may damage the ARDEX WPM 185 membrane.

INSTALLATION

To ensure the correct shedding of water, the membrane must be installed from the lowest point of the area and work towards the highest point, in the direction of the slope. A layer of ARDEX WPM 185 should be completely unrolled and aligned. Using a suitable pressure roller and suitable LPG gas torch equipment, the membrane is to be applied using appropriate application techniques.

Using an LPG gas torch, fuse the laps of the ARDEX WPM 185 to form a continuous membrane layer, with minimum side laps of 100mm and minimum end laps of 150mm.

MEMBRANE TERMINATION

Membrane termination detail to be in accordance with AS4654 or ARDEX recommendation - please consult ARDEX Technical Department for further information (technicalservices@ardexaustralia.com).

Vertical Termination Finishing

ARDEX WPM 185 shall be terminated with one of the suggested options.

Option 1:

The termination with an ARDEX Pressure Seal Strip shall be attached onto the wall using appropriate mechanical fixings at maximum 150mm centres. An approved ARDEX sealant shall be used along the top edge of the ARDEX Pressure Seal Strip to the waterproof wall. Membrane termination height to be in accordance with AS4654 Appendix A.

Option 2:

The termination of an Over-Flashing shall be sealed into the waterproof wall via a minimum 30mm x 30mm reglet. The Over-Flashing must be fixed in place with either ARDEX RA 88 PLUS or ARDEX CA 20 P. Membrane termination height to be in accordance with AS4654 Appendix A.

Option 3:

Terminate the membrane directly into a minimum 30mm x 30mm reglet. Once the membrane has been appropriately installed, the termination (reglet) shall be filled with ARDEX RA 88 PLUS. Membrane termination height to be in accordance with AS4654 Appendix A.

Horizontal Termination Finishing

The termination of the membrane shall be terminated into the concrete substrate via a minimum 30mm x 30mm reglet. Once the membrane has been appropriately installed, the

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termination (reglet) shall be filled with an ARDEX approved product such as ARDEX RA 88 PLUS, ARDEX RA 56, ARDEX WA 100, or ARDEX EG 800 F.

Dependent on reglet size and length ARDEX suggest both products ARDEX RA 56 and ARDEX EG 800F to be bulk filled with ARDEX Aggregate.

All remaining termination details such as vertical downward, parapet capping, cavity flashing, external door opening etc refer to AS4654.

TECHNICAL DATA

CHARACTERISTIC	TEST METHOD	NOMINAL VALUES
Length	EN 1848-1	8m
Width	EN 1848-1	1m
Thickness	EN 1849-1	4mm
Aeric Mass	EN 1849-1	4.5kg/m ²
Watertightness (A)	EN 1928	60kPa
Tensile Strength Longitudinal Transversal	EN 12311-1	700 N/50mm 550 N/50mm
Elongation at Break Longitudinal Transversal	EN 12311-1	40% 45%
Resistance to Tearing (nail shank)	EN 12310-1	150 / 150N
Dimensional Stability Longitudinal Transverse	EN 1107-1 met. A	± 0.3%
Flexibility at Low Temperature	EN 1109	-5°C
Flow Resistance at Elevated Temperature	EN 1110	120°C
Surface Finishes	Lower ¹ Top ²	Polymeric Film PE/PP Mineral Granules
WHITE MINERAL FINISH ONLY		
Solar Reflectance	ASTM E-903	70%
Infrared Emittance	ASTM E-903	90%
Solar Reflect Index (SRI)	ASTM E-1980	80%

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

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

PACKAGING

Roll size: 1m x 8m

Rolls per pallet: 25

STORAGE

All rolls of ARDEX WPM 185 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.

LIMITATIONS

ARDEX WPM 185 is not designed as a heavy trafficable membrane, but can be used for light maintenance foot traffic only.

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 rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. 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). 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

GUARANTEE

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a "consumer" under the Australian Consumer Law and to that extent you need to be aware that: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for

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compensation for any other reasonably foreseeable loss of damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure”.

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet 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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