



ARDEX WPM 3000X

SBS Self-Adhesive Sheet Membrane

Cold application – installed without the use of open flames

Chemical resistance – highly resistant to acids, alkalis and other pollutants

Self sealing – membrane self seals on contact with substrate maintaining watertightness

Ideal for below ground applications and retaining walls

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PRODUCT DESCRIPTION

ARDEX WPM 3000X is a “peel and stick” bituminous/asphalt membrane protected by a cross laminated high-density polyethylene film. ARDEX WPM 3000X is made from two structural components - bitumen/asphalt compound modified with SBS and high tack resins.

This special compound has been formulated to make the product easy to install. The membrane can be adjusted should it initially be placed in the wrong position, as the adhesive on the sheet achieves final adhesion only after a few minutes.

PROTECTIVE FILM

Hot-laminated to the bituminous/asphalt compound and gives the membrane its mechanical and physical characteristics, such as heat stability, shape, chemical resistance, etc.

FEATURES/BENEFITS

- Installed without the use of open flames. Ideal for installation in restricted spaces
- High chemical resistance to acids, alkalis and other pollutants
- Excellent flexibility and adaptability
- Self seals on contact with substrate maintaining watertightness
- Can be used as a Radon and Methane gas barrier
- Consistent membrane thickness

SUITABLE SUBSTRATES

- Concrete
- Blockwork
- Polystyrene blocks
- Structural or marine plywood
- Compressed Fibre Cement sheets

All CFC sheeting must be installed as per manufacturer's instructions. For use over other substrates including existing membranes please contact ARDEX Technical Services (technicalservices@ardexaustralia.com).

TYPICAL APPLICATIONS

- Foundations
- Retaining walls
- Below-ground applications

SUBSTRATE PREPARATION

By way of mechanical method 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 smooth, 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.

PRIMING

Prior to the application of the membrane all prepared surfaces (excluding polystyrene blocks) should be primed with ARDEX WPM 240 at a rate of 5m²-6m² per litre and allowed to dry. For priming polystyrene blocks, ARDEX WPM 300 (HydrEpoxy) is required.

When masonry or concrete substrate moisture content is measured at greater than 80% relative humidity (ASTM F2170) or exceeds 15gm/m²/24hrs (ASTM F1869) when tested in accordance with AS1884 or AS3740, ARDEX WPM 300 (HydrEpoxy) shall be considered as the nominated primer/coating prior to ARDEX WPM 240. Apply two coats of ARDEX WPM 300 (HydrEpoxy) at a rate of 3m²/litre (per coat) and allow to dry for a minimum of 3 days prior to ARDEX WPM 240 application. Drying times will vary depending on substrate temperatures and ambient air conditions.

APPLICATION

ARDEX WPM 3000X must be applied from the lowest point to enable laps to shed water. It is important to pre-plan the application to ensure laps do not occur within corners or penetrations.

All side edge laps must be overlapped by 60mm minimum - all rolls of ARDEX WPM 3000X are marked with a 60mm line for overlapping. All top edge laps must be overlapped by 150mm minimum.

During application care must be taken not to incorporate air bubbles under the membrane or wrinkles in the membrane. After installation, using a suitable pressure roller, firmly roll the membrane onto the prepared substrate paying close attention to all overlaps, corners, connections, and edges.

When finishing the membrane around penetrations, the use of ARDEX Bituminous Roof Sealant, a bitumen-based sealant may assist in achieving a waterproof seal.

In critical environments a specification may require a second layer of ARDEX WPM 3000X to be applied with laps staggered to the first layer.

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BACKFILLING AND DRAINAGE APPLICATION

The membrane must be protected against damage by the placement of protection material between the membrane and granular backfill. The ARDEX Drainage System range offers solutions for effective drainage and membrane protection requirements.

- ARDEX PROTECTION BOARD
- ARDEX DRS 10/18 GC
- ARDEX DRS 30/50 DC
- ARDEX DRS 1 GT

MEMBRANE TERMINATION

Membrane termination detail to be in accordance with AS4654.2 or ARDEX recommendation - please consult ARDEX Technical Department for further information. (technicalservices@ardexaustralia.com)

Vertical Termination Finishing

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 AS4654.2 Appendix A.

PACKAGING

Roll size: 1m wide x 20m long

Roll weight: Approximately 32kg

LIMITATIONS

ARDEX WPM 3000X must not be left UV exposed for extended periods. Care must be taken not to damage the membrane prior to backfill.

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.

STORAGE

ARDEX WPM 3000X should be stored in a covered area protected against sunlight and UV exposure. Rolls should be stored in a vertical position on a smooth floor so as not to damage the edges.

TECHNICAL DATA

PROPERTIES	TEST METHOD	NOMINAL VALUE
Thickness	EN 1849-1	1.5mm
Application Temperature	-	5°C / +40°C
Service Temperature	-	-40°C / +80°C
Tensile Strength Longitudinal	EN 12311-1	215N/50mm
Tensile Strength Transverse	EN 12311-1	220N/50mm
Elongation Longitudinal	EN 12311-1	310%
Elongation Transverse	EN 12311-1	240%
Impact Resistance	EN 12691	Met. A 500mm Met. B 1000mm
Static Load Resistance	EN 12730	Met. A 10kg Met. B 15kg
Tear Resistance Longitudinal	EN 12310-1	135 N
Tear Resistance Transverse	EN 12310-1	135 N
Peel Adhesion (primed concrete)	ASTM D 1000	3 N/mm
Peel Resistance of Joints	EN 12316-1	100N/30mm
Shear Resistance of Joints Longitudinal	EN 12317-1	350N/50mm
Shear Resistance of Joints Transverse	EN 12317-1	350N/50mm
Probe Tack	ASTM D 2979	7 N
Watertightness	EN 1928 (Method A)	Pass @ 60kPa (24 hours)
Watertightness	EN 1928 (Method B)	Pass @ 6 bar (24 hours)
Vapour Transmission Rate	EN 1931	9000 µ
Water Absorption	ASTM D 570	0.09%
Permeability to Radon Gas	SP Swedish Institute	5.7 x 10 ⁻¹² m ² /s
Permeability to Methane Gas	CSI Method	<5 cc/m ² x 24h x atm
Total VOC Emission	ISO 16000-6	8 µg/m ³

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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. Suspected of causing cancer. Combustible. On combustion, may emit toxic fumes of carbon monoxide (CO). Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents. Keep out of the reach of children. 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. For additional information and to ensure you have the most current technical and safety information please consult the latest safety data sheets (SDS) and technical 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 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

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