



ARDEX WPM 3000X

SBS Self-Adhesive Sheet Membrane

Ideal for below ground applications and retaining walls

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

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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

- 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

TYPICAL APPLICATIONS

- Foundations
- Retaining walls
- Below-ground applications

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).

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 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.

SUBSTRATE 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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TECHNICAL DATA

| CHARACTERISTICS | TEST METHOD | NOMINAL VALUES |
|---|-------------------------------------|---|
| Membrane Gauge | EN 1849-1 | 1.5mm |
| Service Temperature | | -40°C / +80°C |
| Application Temperature | | 5°C / +40°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 (@ 24hrs) | EN 1928 (Method A) (Method B) | Pass @ 60kPa Pass @ 6 bar |
| 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 |

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.

BACKFILLING AND DRAINAGE APPLICATION

The membrane must be protected against potential damage by the placement of protection material between the membrane and granular backfill. A suitable protection board and drainage system should be used for effective drainage and membrane protection requirements.

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.

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 20 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”.

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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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