



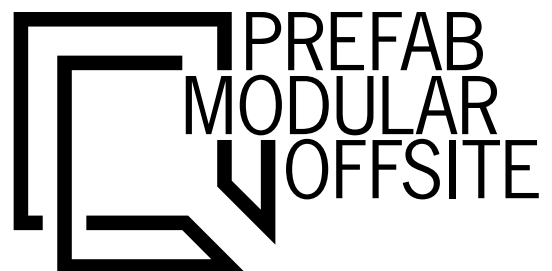
ARDEX PMO 450

Self-adhesive Waterproofing Membrane

Compliant to AS/NZS4858

Engineered for modular construction

Rapid installation and reduced waiting time



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ARDEX PMO 450

Self-adhesive Waterproofing Membrane

DESCRIPTION

ARDEX PMO 450 is a transparent, self-adhesive bio-PE plastic sheet with a laminated polypropylene fleece on the surface to allow for direct stick tile and screed applications.

FEATURES

- Compliant to AS/NZS 4858
- Compatible with ARDEX recommended tile adhesives
- Compatible with ARDEX water-based liquid applied membranes
- Commence flood testing, tiling or screed application 1 hour after installation completion

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 membrane installation. Prepare surface to leave sound, clean, dry, uniform, free from sharp edges, loose or other materials which may damage the membrane.

Damaged concrete between 2mm - 30mm can be treated with ARDEX A 46. 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.

APPLICATION

Please refer to the ARDEX PMO 450 installation guide for more details.

Apply ARDEX Multiprime when surface dust is present. Please refer to ARDEX Multiprime technical data sheet for application information.

ARDEX PMO 450 must be laid edge to edge (not overlapping) with a maximum distance of 10mm between the membrane sheets.

In the corner areas between wall to floor and between wall to wall, the butt-jointed strips must be covered with the system sealing tapes.

In the joint area, the sealing tape, as well as the inner and outer corners and seal collars, must overlap by at least 50mm. Internal and external corners must be covered with the system sealing corners.

TILING APPLICATION

The ARDEX PMO 450 is specially designed for direct stick tile applications. With the ARDEX PMO 450 surface being totally sound, dry, and clean, tiling may commence 1 hour after the membrane system has been fully installed.

Recommended ARDEX Tile Adhesives include:

- ARDEX X 18
- ARDEX X 56
- ARDEX X 77
- ARDEX Optima

For other ARDEX Tile Adhesives please contact ARDEX Technical Services (technicalservices@ardexaustralia.com).

SCREED APPLICATION

The ARDEX PMO 450 is suitable for screed applications. With the ARDEX PMO 450 surface being totally sound, dry, and clean, the screed mix may commence 1 hour after the membrane system has been fully installed.

When directly bonding to the ARDEX PMO 450, a minimum screed thickness of 15mm is recommended when using diluted ARDEX WPM 405 instead of water. For unbonded screeds or a screed thickness greater than 40mm, reinforcing mesh is required.

Admix for slurry coat: 1 part ARDEX WPM 405: 1 part clean water: 4 parts cement (by volume).

Admix for screed: Mix 1 part ARDEX WPM 405 with 4 parts clean water and use as the guaging mix (mixing water) with a 3:1 or 4:1 sand/cement mix.

Mix a thin slurry and spread the mix over the surface with a brush, roller, or soft bristle broom (2mm maximum thickness). The screed mix must be applied whilst the slurry coat is still wet. A wood float finish is recommended to create a key for subsequent tiling and waterproofing. Do not lay the reinforcing mesh directly onto the membrane, the reinforcing mesh must be installed between the screed layers.

For epoxy-based screeds, the minimum thickness is 10mm. Please refer to the ARDEX EG 800 F product datasheet regarding mix ratios, and application recommendations.

PACKAGING

30m (L) x 0.99m (W)

1 x roll per carton

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TECHNICAL DATA

CHARACTERISTICS	TEST METHOD	NOMINAL VALUES
Membrane Gauge		0.50mm
Cyclic Movement	AS/NZS 4858	Pass
Service Temperature		+5°C to +45°C
Tensile Strength (MPa)	ASTM D412	3.71 MPa
Elongation at Break	AS/NZS 4858	45%
Min Elongation after delonised water immersion (56 days)	AS/NZS 4858	Pass
Elongation after bleach immersion (56 days)	AS/NZS 4858	Pass
Elongation after detergent immersion (56 days)	AS/NZS 4858	Pass
Water Vapour Transmission	ASTM E96	0.13g/m ² /24 hours
Water Absorption (maximum)	AS3558.1	45%

STORAGE

ARDEX PMO 450 has an indefinite shelf life when stored in good conditions, between 5°C and 30°C. Rolls must be stored horizontally, out of direct sunlight, away from sources of puncture and physical damage, away from ignition sources and open flame.

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 and eye protection. Avoid inhaling dust/fume/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. Additional information is in the Safety Data Sheet (SDS) at 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, 2 Buda Way, Kemps Creek, NSW 2178; 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 or 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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This data sheet was issued in June 2026 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.