



ARDEX WPM 1000

WeldTec External Undertile Waterproofing Membrane

Tiling/screeding can begin 60 minutes after membrane installation

Heat-welded laps and seams

Polypropylene-lined for greater adhesion

Thin and consistent 1.2mm membrane thickness

Excellent flexibility - no requirement for fillet or bond breakers

Excellent resistance to tearing, cracking, bubbling, and absorption

Fully compatible with ARDEX tiling systems

Suitable for underground tanking, roof, decks, under tiles, pavers, cavity door flashings

Meets requirements of AS4654 waterproofing membranes for external above-ground use

WeldTec™



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PRODUCT DESCRIPTION

ARDEX WPM 1000 WeldTec Weldable Waterproofing Membrane is a polypropylene-lined waterproofing sheet membrane specially formulated for the direct adhesion of tiled systems or for other non-exposed use. ARDEX WPM 1000 is heat-welded at laps and seams to create a superior bond, consistent gauge and allow a quick installation. ARDEX WPM 1000 has excellent flexibility, durability, and superior resistance to tearing, cracking, bubbling and absorption. Flood testing/tiling can be done directly on the membrane after 60 minutes.

FEATURES AND BENEFITS

- May be directly tiled to (using approved ARDEX tile adhesives).
- Tiling/flood testing can begin 60 minutes after membrane installation.
- May have a screed directly adhered to top surface of membrane (minimum 15mm using ARDEX WPM 405 additive to screed and slurry primer).
- May be painted over using ARDEX approved coatings and membranes.
- No fillet/bond breaker required in floor/wall transitions.
- Greater than 300% elongation.
- Consistent waterproofing gauge thickness.
- Heat welded corners and laps.
- Available with a unique clamp waste outlet (TileRite).
- Up to 20 years material warranty

USES

ARDEX WPM 1000 is specifically designed to be used as an external waterproofing membrane for directly adhered tiled surfaces or for other non-exposed use. ARDEX WPM 1000 is suitable for use with most ARDEX tile adhesives in domestic and commercial locations over most common substrates.

Note: Membrane must not be left exposed to UV.

RESISTANCE

ARDEX WPM 1000 resists tearing, flex cracking, bubbling and abrasion. It is extremely strong, has a long life and is versatile.

DURABILITY

ARDEX WPM 1000, when fixed according to ARDEX instructions, will meet the CSIRO Test. Contact ARDEX Technical Services for the relevant certificate.

GAUGES

Standard 1.2mm

INSTALLATION

The application of ARDEX WPM 1000 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 WeldTec systems are installed must be properly prepared prior to installation. All surfaces must be clean, dry, smooth and free of sharp edges, 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 installation.

PRIMING

Apply to masonry surfaces one coat of ARDEX WA 98 adhesive (cut 50/50 with ARDEX WA 98 solvent) and allow to dry (minimum 20 minutes).

CONCRETE SPECIFICATION

Ensure new concrete substrate has been allowed to cure for at least 28 days.

Ensure curing compounds and sealers are compatible with ARDEX membrane components before installation. Prepare surface, including vacuum cleaning as necessary to leave smooth, clean, dry and free of sharp edges. Loose or foreign materials, oil, grease or other materials which might damage the membrane.

External edges shall be radiused a minimum of 5mm. Fillets (minimum of 20mm) shall be installed where required.

DAMP OR GREEN CONCRETE

Apply two coats of ARDEX WPM 300 HydrEpoxy at a rate of 3m²/litre (per coat) and allow to dry for a minimum of 24 hours (as per ARDEX WPM 300 TDS). Once the ARDEX WPM 300 has dried, apply a primer coat of ARDEX WA 98 adhesive to all surfaces to be overlaid with ARDEX WPM 1000 membrane.

PLYWOOD AND TIMBER

The plywood and timber substructure shall have a maximum moisture content of 18% when ARDEX WPM 1000 is adhered.

NOTE: The use of LOSP (Light Organic Solvent Preservative) treated plywood must NOT be used under ARDEX WPM 1000 in any circumstances or conditions.

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COMPRESSED FIBRE CEMENT SHEETING

Compressed fibre cement sheet should be installed as per CFC manufacturer's instructions. Joints to be caulked using ARDEX RA 040. Fibre Cement Sheets to be primed with WA 98 adhesive. Fibre Cement Sheet joints to be overlaid with ARDEX STB Tape.

APPLICATION

ARDEX WPM 1000 is to be adhered with a suitable adhesive such as ARDEX WA 98 in accordance with the appropriate product datasheet. ARDEX Flashing Tape should be used for detailing or reinforcement of critical areas.

Membrane to be installed with minimum 40mm overlaps (both side and end laps) and heat welded using an approved hot-air welding unit. All corners, penetrations, drainage outlets to be detailed and welded in accordance with manufacturer recommendations.

PRECAUTIONS AND LIMITATIONS

ARDEX WPM 1000 waterproofing membrane is not suitable as a trafficable surface or left exposed for long periods of time. The membrane should be protected from long term UV exposure and mechanical damage. For electric under tile heating, the wire must be covered with a thin screed prior to laying the membrane. It is the responsibility of the main building contractor to ensure all sub-trades likely to be working in the vicinity of the membrane are aware that a waterproofing membrane has been installed and all care must be taken to protect the membrane from damage. The tiler must lay tiles in accordance with best practice guidelines.

PACKAGING

Rolls of nominal 1.4m x 20m long
Approximate weight per roll 38kg
Rolls are packed in a polythene wrapper trademarked ARDEX WPM 1000.

ANCILLARY PRODUCTS

ARDEX WA 98 Adhesive 20L
ARDEX WA 98 Solvent 20L
ARDEX CA 750 Water-based Adhesive (for internal works only) 15L
ARDEX Flashing Tape 4.7m x 100mm Roll
ARDEX STB Tape 15m x 75mm Roll
ARDEX STA Tape 120-40 (1.2m long)
Undertile Butynol Corners (pkt 10)
Undertile Butynol Flashing- L Section (9m x 220mm)
100mm Square TileRite- Chrome On Brass Grate (clamp down waste)
100mm Round TileRite-Chrome On Brass Grate (clamp down waste)
ARDEX RA 88 Plus Ceramic Epoxy 254ml
ARDEX CA 20P White

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MATERIAL SPECIFICATION

ARDEX requirements for long term warranty necessitates that ARDEX WPM 1000 meets these typical requirements:

Characteristics	Test Method	Nominal Value
Gauge		1.2mm
Specific Gravity	ASTM D297	1.26 ± 0.05
Tensile Strength	ASTM D412	5.0 MPa min.
Modulus at 300% elongation	ASTM D412	4.00 MPa min.
Elongation at break	ASTM D412	300% min.
Tear die	ASTM D624	26.5 kN/m min.
Hardness (°IRHD)	ASTM D1415	70 ± 5
Tensile retained	ASTM D412	70% min.
Ozone Resistance	ASTM D1149	No visible cracks
Water vapour transmission	AS/NZS 4858	1.35g/m ² /24 hours

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. This product is combustible, decomposes on heating and produces toxic fumes. 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. Additional information is in the Safety Data Sheet (SDS) at www.ardexaustralia.com

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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 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. 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 datasheet was issued in June 2020 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.