



ARDEX WPM 310

Protective Coating & Waterproofing Membrane

Compliant to AS4654

Provides excellent UV resistance

Water-Based - safe to use, low odour

Provides long term protection from elements

Can be tinted to a wide variety of decorative colours

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PRODUCT DESCRIPTION

ARDEX WPM 310 is a tough, UV stable, and flexible liquid applied external coating and membrane. It has been specifically formulated as a general purpose protective coating and membrane for exposed applications. ARDEX WPM 310 can be applied as an aesthetically attractive textured or semi-smooth finish.

FEATURES

- Compliant to AS4654
- Water based – safe to use, low odour
- Can be tinted to a wide variety of colours
- Provides excellent UV resistance and long term protection from elements

TYPICAL APPLICATIONS

- Building facades
- Roof parapets and external walls
- Silos, lighthouses and other external structures
- Particularly important in coastal areas for application over concrete and masonry structures
- At a total dry film thickness of 0.3mm the film formed is classified as semi-permeable, and suitable as a decorative finish protective facade coating
- At a total dry film thickness of 1.0mm the film formed is suitable for horizontal applications requiring a waterproofing membrane, being applied to ARDEX Weldtec™ membranes, and ARDEX Torch Applied mineral finished membranes

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 coating.

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

When masonry or concrete substrate moisture content is measured at greater than 80% relative humidity (ASTM F2170) or exceeds 15g/m²/24hrs (ASTM F1869), two coats of ARDEX WPM 300 (HydrEpoxy) must be applied. This is typically equivalent to 5% or greater moisture content from a digital non-destructive moisture meter, however Australian Standards must be followed.

Excluding damp or new concrete (<28 days old), ARDEX WPM 270 must be used and is highly recommended for external applications onto porous substrates such as concrete, masonry, blockwork, and brick. Apply with a brush and or roller at 6.0m²/L and allow to fully dry (generally 30 minutes @ 23°C / 50% R.H). The ARDEX WPM 270 should be overcoated within 24 hours of application to avoid intercoat contamination.

When applying to new render, ensure the render has fully cured before priming with ARDEX WPM 270. When applying to existing render, ensure the render is sound, free from delamination issues, and free from imperfections which may affect subsequent priming and coating.

CRACK PREPARATION

During preparation all loose debris, dirt, dust, curing compounds, oils, grease, surface sealers, existing coatings, and any other contaminants must be completely removed.

Static cracks <1.0mm wide:

Apply suitable ARDEX primer within prepared crack and 200mm equidistantly across and along the crack length. Once primer has dried/cured, apply two coats of ARDEX WPM 310 and allow to dry.

Static cracks >1.0mm wide:

Grind out crack (6mm wide x 6mm depth minimum). Use appropriate backer rod or self-adhesive bond breaker tape prior to ARDEX RA 050 or ARDEX CA 20 P PLUS application to avoid three sided adhesion and to control sealant depth. Tool sealant flush with surface, then apply two coats of ARDEX WPM 310 and allow to dry.

Other ARDEX structural crack rectification methods may include:

- ARDEX RA 56
- ARDEX RA 142
- ARDEX RA 144
- ARDEX Concrete Crack Lock

All suggested methods must be applied in accordance to their product data sheet found at www.ardexaustralia.com.au.

MOVEMENT JOINTS

All joints must be prepared accordingly with all dirt, dust, curing compounds, oils, grease, surface sealers, existing sealant, and any other contaminants removed prior to sealant application.

Use appropriate backer rod or self-adhesive bond breaker tape prior to sealant application to avoid three sided adhesion and to control sealant depth. Extrude the ARDEX RA 050 or ARDEX CA 20 P PLUS into the prepared joint, ensuring complete adhesion to the joint sides and avoiding air entrapment. Tool the sealant flush with the finished surface.

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ARDEX RA 050 can be overcoated immediately after tooling. Allow 1 - 2 hours (minimum) drying time of the ARDEX CA 20 P PLUS prior to application of ARDEX WPM 310.

ARDEX RA 050 joint capabilities:
Minimum/Maximum width: 5mm/30mm
Minimum/Maximum depth: 5mm/15mm

ARDEX CA 20 P PLUS joint capabilities:
Minimum/Maximum width: 5mm/40mm
Minimum/Maximum depth: 5mm/15mm

APPLICATION

Protective facade coating:

Apply using a nap or textured roller. Apply the coating in two coats ensuring a uniform coverage is achieved at a wet film thickness of 0.3mm (minimum) per coat to achieve an overall dry film thickness of 0.3mm (minimum) after two coats. Allow the first coat to become hard dry (generally 4 hours @ 23°C / 50% R.H) before applying the second coat. Ensure a wet-edge is maintained during application to avoid streaking affect (roller mark), and avoid application during the warmest time of the day.

Waterproofing membrane:

Apply using a nap or textured roller. Apply the coating in two coats ensuring a uniform coverage is achieved at a wet film thickness of 1.0mm (minimum) per coat to achieve an overall dry film thickness of 1.0mm (minimum) after two coats. Allow the first coat to become hard dry (generally 4 - 6 hours @ 23°C / 50% R.H) before applying the second coat. Ensure a wet-edge is maintained during application to avoid streaking affect (roller mark), and avoid application during the warmest time of the day.

SURFACE FINISH

The surface finish achieved can be varied by selection of method of application. Prior to the commencement of any project it is recommended that a sample of the finish be prepared for approval and that approved finish shall act as the standard.

SURFACE FINISH PROFILE	ROLLER TYPE	
	1st coat	2nd coat
High Texture	Med. Texture	Med. Texture
Medium Texture	Nap	Med. Texture
Low Texture	Med. Texture	Nap
Ripple Texture	Nap	Nap

The length of the roller nap will vary the profile of the texture although the nap length must suit the substrate. A 10–12mm nap produces a low surface profile while a 15–18mm nap produces a higher surface profile. It is highly suggested to

always complete the application on the “down stroke” to greatly reduce dirt pick-up on textured finish.

DRYING TIMES: (23°C / 50% RH)

Surface dry	2 hours
Recoat	4 hours
Full cure	7 days

NOTE: Drying times and curing times will depend on ambient and substrate temperatures.

COVERAGE

15 litre = 3.5m² - 4m² / litre / per coat approximately (2 coats total DFT 0.3mm).

Coverage rate will vary depending on the condition of the substrate and film thickness.

TECHNICAL DATA

CHARACTERISTICS	TEST METHOD	NOMINAL VALUES
Form		Viscous liquid
Colour		Koala Grey & White (Special colours on request - made to order)
Specific Gravity		Approx. 1.3g/cm ³
Water Vapour Transmission	ASTM E96	21.9g/m ² /24hrs
Tensile Strength (DFT 1.0mm)	AS 1145	1.16 MPa
Elongation (DFT 1.0mm)	AS 1145	Class II
Durability Immersion (DFT 1.0mm)	AS4654.1 Appendix A	Pass
Durability UV Exposure (DFT 1.0mm)	AS4654.1 Appendix A Table A4	Pass
VOC Content		100g/L

NOTE: Tests have been performed under standard conditions (23±2 °C, 50±5% R.H).

PACKAGING

15ltr pail

STORAGE

Keep containers securely sealed. Do not allow to freeze. Do not store in direct sunlight. Replace lid tightly after use. Product should be used within 6 months of the container being opened.

SPILLS/LEAKS

Clean up spills immediately. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable labeled container for waste disposal.

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LIMITATIONS

Polyurethane based sealants must never be used under any circumstance with ARDEX WPM 310 as they can bleed plasticisers into the coating. Not suitable for areas subject to medium to heavy foot traffic - light maintenance foot traffic is acceptable. Where solvent or petroleum based products could be spilled. When rain appears imminent or within 24 - 48 hours after application. Do not apply where both the surface temperature and air temperature is below 10°C or greater than 35°C as this may reduce the products curing time and or wet edge time which may increase the risk of showing roller marks after drying. On damp surfaces that have not been primed with ARDEX WPM 300 (Hydrepoxy). Do not attempt to thin product with water as this will affect the products performance characteristics. For substrates or situations other than those listed, please contact ARDEX Technical Department.

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

This product may cause irritation to the skin. It may cause serious eye injury and irritation to the respiratory system. 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, 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, 2 Buda Way Kempes 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 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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This data sheet was issued in November 2024 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.