



ARDEX WPM 310

(Shelterguard)

External façade and roof membrane

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(Shelterguard)

External Façade and Roof Membrane

PRODUCT DESCRIPTION

ARDEX WPM 310 is a tough, UV stable flexible, premixed liquid applied waterproofing membrane. It has been specifically formulated as a general purpose membrane for exposed wall and roof waterproofing. ARDEX WPM 310 can be applied as an aesthetically attractive textured or semi-smooth finish for walls or a semi-smooth uniform finish for roofs. ARDEX WPM 310 is available in a range of standard colours.

FEATURES/BENEFITS

- Flexible – accommodates normal building movement.
- Provides excellent UV resistance and long term protection from elements.
- Excellent workability – easy, quick to apply.
- Decorative – choice of colours.
- Water based – safe to use, low odour and easy cleaning.

TYPICAL USES

- **At a dry film thickness of 0.30mm** the film formed is classified as semi-permeable and suitable for substrates that have to breathe.
As a decorative textured finish and waterproofing of external walls and facades.
- **At a dry film thickness of 1.0mm** the film forms a waterproof membrane.
As a waterproof membrane over concrete roofs, decks. Suitable for light (service) traffic when fully reinforced and overcoated with ARDEX WPM 355 Protective Finish. High traffic areas will require a protective cement screed over the membrane.

LIMITATIONS

Do not use the product in the following situations:

- Areas subject to traffic must be treated as follows:
 - Light (service) traffic – fully reinforce with ARDEX Deckweb and overcoat with ARDEX WPM 355 (Sheltercoat Protective Finish).
 - Medium or Heavy traffic – apply a protective cementitious screed over the membrane to provide protection.
- Where solvent or petroleum based products could be spilled.

- When rain appears imminent.
- Where the surface temperature is below 10°C or greater than 35°C.
- On wet surfaces that have not been sealed with ARDEX WPM 300 (HydrEpoxy 300).
- Do not attempt to thin with water. For substrates or situations other than those listed, contact your ARDEX representative.

SURFACE PREPARATION

Ensure all surfaces are structurally sound or securely fixed and totally dry. The surface to be coated should be free from dust, oil, curing compounds and any other contaminating materials. When applying over existing coatings, ensure they are firmly bonded. Damaged or spalled concrete should be repaired with ARDEX B 34 and B 36 fairing coat and patching mortars (levelled) and surface defects including all cracks and sharp protrusions should be treated prior to the application of the membrane. Remove laitance by mechanical means and dense concrete should be mechanically roughened to open the pores of the concrete. New concrete should be left at least 28 days to cure or primed with ARDEX WPM 300 (HydrEpoxy 300). Wet, damp or new concrete substrate surfaces should be primed with ARDEX WPM 300 (HydrEpoxy 300) at 3.0 square metres per litre (0.3mm wet film thickness) and allowed to cure overnight.

All surfaces, other than those sealed with ARDEX WPM 300 (HydrEpoxy 300), must be primed with ARDEX WPM 270 solvent or ARDEX WPM 265 water based primer at a coverage rate of 6 square metres per litre. ARDEX WPM 270 solvent based primer is preferred for use in external applications. Hebel block or other highly porous surfaces may need two coats.

Allow the primer to dry for at least 30 minutes before applying the first coat of membrane. The primer should preferably be overcoated within the same day of application to avoid intercoat contamination.

APPLICATION

EXTERNAL WALL MEMBRANE APPLICATION

Apply using a nap or textured roller. Apply the coating in two coats ensuring a uniform coverage is achieved at an approximate wet film thickness of 0.3mm per coat to achieve an overall dry film thickness of 0.3mm. Allow the first coat to become hard dry (normally about 4 hours at 23°C / 50% RH) before applying the second coat.

ROOF MEMBRANE APPLICATION

Apply the coating in two coats ensuring a uniform coverage is achieved at an approximate wet film thickness of 1.0mm per coat to achieve an overall dry film thickness of 1.0mm. Allow the first coat to become hard dry (normally about 4 hours at 23°C / 50% RH) before applying the second coat.

Cold joints and mobile joints must incorporate a bond breaker and be reinforced using ARDEX Deckweb. Areas subject to light (service) traffic should be fully reinforced using ARDEX Deckweb and overcoated with ARDEX WPM 355 (Sheltercoat Protective Finish). Areas subject to heavy traffic should have a protective cementitious screed applied over the membrane.

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 finish shall act as the standard.

Surface finish profile	Roller type	
	1 st coat	2 nd 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.

COVERAGE

EXTERNAL WALL MEMBRANE APPLICATION

1 x 15 litre unit will cover approximately 24 square metres in two coats at a total dry film thickness of 0.3mm.

ROOF MEMBRANE APPLICATION

1 x 15 litre unit will cover approximately 7 square metres in two coats at a total dry film thickness of 1.0mm.

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

CLEANING AND THINNING

Thinning is not necessary or recommended. Clean up with water before material has set and remove cured material with mineral turps.

PROPERTY DATA

Characteristics of liquid

Form and colour	Viscous Liquid in standard colours. Special colours on request at a premium
Specific gravity	Approx. 1.3 g/cm ³

Characteristics of cured membrane

Water vapour transmission (ASTM E96) at 1.0mm 21.9 g/m²/24hrs

Tensile strength AS1145
After 28 days dry 2.1 MPa
After 14 days UV exposure 3.0 MPa
After 2,500 hrs QUV 5.9 MPa

Elongation at break AS1145
After 28 days dry 460%
After 14 days UV exposure 315%
After 2,500 hrs QUV 180%

Application details

Application method

- Textured roller, medium nap roller or brush for external wall membrane.
- Long nap roller or brush for roof membrane application.

Overcoat time 4 hrs @ 23°C 50% RH

Dry through (2nd coat) 24 hrs @ 23°C 50% RH

Application temperature 10°C – 35°C (surface temp)

Service temperature 0°C – 60°C

VOC content 100g/L

NOTE: Most of the tests have been carried under standard conditions (23±2 °C, 50±5% R.H).

SAFETY DATA

Non-hazardous substance. Non-dangerous goods.

FIRST AID

If poisoning occurs, contact a doctor or the Poisons Information Centre. If swallowed, immediately give a glass of water. If skin contact occurs, wash skin thoroughly with soap and water. Seek medical attention in event of irritation. If in eyes, hold eyes open and flood with water for at least 15 minutes. If irritation continues seek medical attention. If fumes or combustion products are inhaled remove from contaminated area.

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.

FIRE

Non combustible. Not considered to be a significant fire risk.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

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 Standard, our instructions and recommendations and 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 effect 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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