



ARDEX WPM 317

External Facade & Roof Membrane

Heat Reduction

Decorative and UV Resistant

Versatile and easy to use

Low VOC

Provides Tough and Durable Protection

Long term flexibility with crack-bridging ability

Available in Light Grey, White, Green, Clay & Red



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DESCRIPTION

ARDEX WPM 317 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 317 can be applied as an aesthetically attractive, textured or semi-smooth finish for walls or a semi-smooth uniform finish for roofs. ARDEX WPM 317 is available in a range of 5 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
- Water-based: safe to use, low odour and easy cleaning
- Versatile: can be used for facade and roof application

APPLICATIONS

- At a minimum dry film thickness of 0.25mm 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 minimum dry film thickness of 0.8mm the film forms a waterproof membrane.
- As a waterproof membrane (minimum dry film thickness of 1.0-1.2mm) over concrete roofs and decks. Suitable for occasional light (service) traffic only.

ACCEPTABLE SUBSTRATES

Concrete, renders & screeds, fibre cement sheet, metal.

LIMITATIONS

Do not use the product in the following situations:

Areas subject to regular foot traffic must be treated as follows:

Light (service) traffic - fully reinforce with ARDEX

Deckweb and incorporate with three coats of ARDEX WPM 317 with minimum DFT of 1.0-1.2mm.

Medium traffic – fully reinforce with ARDEX Deckweb and 3 coats of ARDEX WPM 317 with minimum DFT of 1.5mm and one finishing coat of ARDEX WPM 359 or apply a protective cementitious screed over the membrane to provide protection.

- Do not use the product under the following application conditions:
- 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.

Do not attempt to thin with water. For substrates or situations other than those listed, contact your ARDEX representative.

SURFACE PREPARATION

The surface to be coated should be clean, sound, and free from oil, grease, form release agents or bond-breakers and other contaminants. All areas of loose or flaking paint must be removed to a firmly bonded substrate. Concrete surface pores must be open to enable good adhesion.

Concrete:

New concrete should be at least 28 days old or sealed with one coat of Ardex WPM 300 at 3m² per litre and left to cure overnight. Old concrete that are damp or wet, will required at least 24 hours of thorough drying.

Renders & Screed:

New renders & screed should be cured for at least 7 days or sealed with one coat of ARDEX WPM 300 at 3m² per litre and left to cure overnight. Old wet renders & screed should be thoroughly dry for at least 24 hours.

Fibre Cement Sheet (External grade):

Surface is clean and dry, ready for receiving priming.

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Metal:

Primed with ARDEX WPM 278 if the surface has signs of scaling and rust, however it is essential to remove as much as possible any scaling before priming.

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 2–3 coats ensuring a uniform coverage is achieved at an approximate wet film thickness of 0.15 - 0.25mm per coat to achieve an overall dry film thickness of 0.35 – 0.50mm.

Allow the first coat to become touch dry (normally about 4 hours at 25°C/75% RH) before applying subsequent coats.

Roof Membrane Application:

Apply the coating in 4 coats and ensuring a uniform coverage is achieved at an approximate wet film thickness of 0.3mm per coat to achieve an overall wet film thickness of 1.0mm. Allow the first coat to become touch dry (normally about 4 hours at 25°C/75% RH) before applying subsequent coats.

Cold joints and mobile joints must incorporate a bond breaker and be reinforced using ARDEX Deckweb. Areas subject to regular traffic should be treated as instructed under 'limitations'.

Thinning is not recommended.

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.

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 18L unit will cover approximately 36m² per pail in two to three coats at a total thickness of 0.25mm.

Roof Membrane Application:

1 x 18L unit will cover approximately 12 m² per pail in four coats at a total dry film thickness of 0.8mm.

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

PACKAGING

18L pail

COLOURS

Standard colours are light grey, white, green, red and clay. For any special colours, please refer to colour chart, minimum quantity of 48 pails apply.

CLEANING

Clean up with water before material has set and remove cured material with mineral turpentine.

Dispose of containers in compliance with all relevant local authorities, state, and federal regulations.

SHELF LIFE AND STORAGE

Shelf life is approximately 18 months when stored in the original unopened packaging in a dry place at 23°C and 50% relative humidity. Protect liquid

Surface Finish profile	Roller Type	
	1st Coat	2nd Coat
High texture	Med. texture	Med. texture

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from frost, do not allow to freeze.

TECHNICAL PROPERTIES

Form & Colour	Viscous thixotropic liquid in standard colours: light grey, white, green, clay and red
Characteristics of cured membrane	
Tensile Strength (membrane only, ASTM D412:98a)	1.8 - 2.2 N/mm ²
Elongation at break (membrane, ASTM D412:98a)	350-420% (not aged) 200-300% (14 days, 50°C)
Elongation at break (ASTM D412:98a)	300% (immersed separately in 0.5% NaOCl, 1.25% NH ₄ OH, 3.7% HCl solutions)
Adhesion to substrate (ASTM D2486)	1.0 - 1.40 N/mm ²
Crack bridging test (ASTM C836:95, sect 5.7)	passed: > 2mm (no cracks)
Water penetration test (DIN 1048:91, Part 5)	no penetration, 12 hours at 0.2kgf/cm ²
Hardness, Shore A (median) (ASTM D2240:2000)	72-74
Application Details	- textured roller, medium nap roller or brush for external wall membrane - long nap roller or brush for roof membrane application
Overcoat time	4 hours @25°C, 75% RH
Dry through time	24 hours @25°C, 75% RH
Application temperature	10-35°C (surface)
Service temperature	0-60°C

SAFETY PRECAUTIONS

ARDEX WPM 317 is non-hazardous and non-dangerous goods. Avoid contact with skin and inhalation of the vapour. Wear protective eye/face protection and gloves when handling. Provide adequate ventilation. Wash off splashes with clean

water. If irritation persists, seek medical advice. Additional information is in the Material Safety datasheet, available upon request and online at www.ardex.com.sg.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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