

**TECHNICAL DATA****Colour:** Blue/Grey**Properties of the cured membrane****Tensile strength:** 1.2 MPa**MPa AS1145****% Elongation:** >350%**Shore A Hardness:** 65-75**Water vapor transmission****(AS4858/ASTM E96):** 1.2g/24hrs/m<sup>2</sup>**VOC content:** 42g/L**Durability (AS4858):** Pass**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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# ARDEX WPM155 Rapid

## (Undertile PU Acrylic Hybrid Membrane)

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Tile in 4 hours

ArDEX STB Tape and Liquid Membrane

Modified polyurethane acrylic waterproof membrane

Excellent adhesion with ARDEX tile adhesives

Extended coverage for minimising cost

Environmentally friendly – solvent free, suitable for confined areas

Class III Membrane – as per AS/NZS4858 Wet Area Membranes

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# ARDEX WPM155 Rapid

## (Undertile PU Acrylic Hybrid Membrane)

### DESCRIPTION

Water-based polyurethane-acrylic waterproofing membrane developed for high performance under-tile waterproofing.

- Tough flexible film.
- Long shelf life.
- Meets Green Building Council of Australia Greenstar requirements IEQ-13, IEQ-11.
- Can be tiled over – good adhesion with ARDEX tile adhesives.
- Excellent adhesion to a wide range of substrates.
- Fast drying.
- Class III Membrane, as per AS/NZS 4858 Wet Area Membranes.

### RANGE OF APPLICATIONS

For commercial and residential internal/external wet areas, balconies, decks and other areas that will be tiled or otherwise protected from regular foot traffic. Not suitable for permanent immersed conditions. For conditions of permanent immersion, it is recommended that ARDEX WPM 002 (Superflex Two Part) is used. For further information please call ARDEX Technical Services.

### SUBSTRATES

#### Concrete

Cured for minimum 28 days, wet concrete should be allowed to dry thoroughly or sealed with one coat of ARDEX WPM 300 at coverage rate of 3.0m<sup>2</sup> per litre.

#### Renders and screeds

Cured for min 7 days. Wet render should be allowed to dry thoroughly or sealed with one coat of ARDEX WPM 300 at coverage rate of 3.0m<sup>2</sup> per litre and allowed to cure overnight.

#### Fibre cement sheets

Wet area grades only.

#### Plywood

Structural plywood (PAA branded) or marine grade or other wet area grade only. Not recommended for external use (refer ARDEX).

### PRIMERS

ARDEX WPM 155 Rapid is suitable to use over ARDEX P9, ARDEX WPM 300, or WPM 270 or WPM 265 or ARDEX Multiprime and Abaprime.

### APPLICATION TYPES

#### STANDARD APPLICATION

ARDEX WPM 155 Rapid should be thoroughly mixed to a uniform consistency and ensure the coating is applied evenly at recommended coverage rates. Mobile joints should be reinforced using Deckweb and the membrane must be lapped to intrusions such as waste outlets in accordance with AS 3740. Apply ARDEX WPM 155 Rapid by brush or roller. A medium nap (8–12mm pile) or 50mm long bristle paint brush is recommended.

#### COVERAGE

This will vary with the porosity of the substrates. Two coats are recommended to get optimum performance.

#### For floors

A minimum dry film thickness of 1.0mm is required. A 20kg unit (15 Litres) will cover approximately 8.6m<sup>2</sup> (based on two coats). A 5.3kg (4 Litres) will cover approximately 2.3m<sup>2</sup>.

#### For walls

A minimum dry film thickness of 0.5mm is required. A 20kg unit (15 Litres) will cover approximately 17.2m<sup>2</sup>. A 5.3kg unit (4 Litres) will cover approximately 4.6m<sup>2</sup>.

#### DRYING TIME

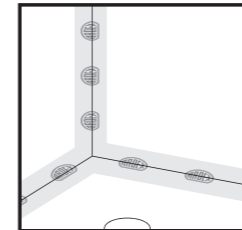
Recoat time is 1–2 hours between first and second coats. Drying time on flat surfaces under standard conditions is 4 hours. However, dry through time will be slowest in areas where ARDEX WPM 155 Rapid is applied over neutral cure silicone bond breaker, or is reinforced. Make sure these areas are dry before tiling, this will generally be 24 hours after the last application at 23 deg and 50% RH. Drying times will vary depending on humidity, surface temperature and porosity of substrates.

### RAPID APPLICATION

ARDEX WPM 155 Rapid should be thoroughly mixed to a uniform consistency and ensure the coating is applied evenly at recommended coverage rates.

All junctions and joints should have ARDEX STB Tape applied. See Ardex website for detailed video on application of this tape. [www.ardexaustralia.com](http://www.ardexaustralia.com)

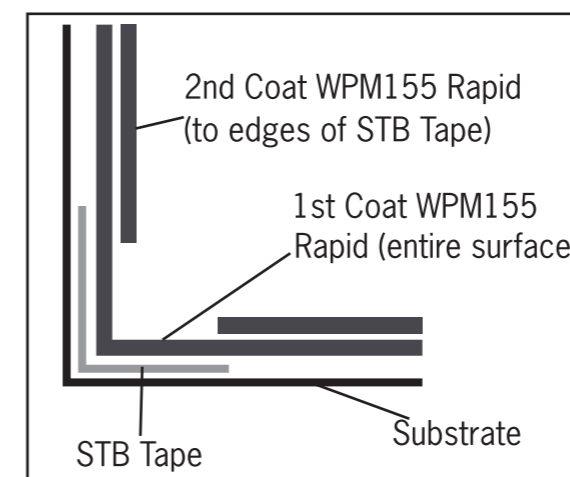
1. Ensure area is free from contaminants and clean making sure to remove all dust and prime fibre cement sheet with an approved primer (listed in the primers section). Apply the tape and use a roller to ensure that a secure bond is made between the tape and substrate and carefully moulded into the corners.



2. Apply a coating of WPM 155 Rapid to the entire area to be waterproofed using a brush or roller, a medium nap (8–12mm pile) or 50mm long bristle paint brush is recommended. This first coat should be applied at 0.5mm (wet film thickness) to provide a 0.25mm dry film thickness. Allow to dry. Dry time is approximately 1-2 hours.

3. Apply a second coat of the WPM155 Rapid membrane at a thickness of 0.5mm (wet film thickness) to provide a dry film thickness of 0.25mm. This will provide in total a dry film thickness of 0.5mm total dry film thickness.

Note: The second coat needs to only be applied up to the edge of the ARDEX STB Tape (as pictured below)



Tiling can begin once the second coat has dried which is generally 3 hours at 23°C in undertile applications. Drying times will vary depending on humidity, surface temperature and porosity of substrates.

The membrane must be lapped to intrusions such as waste outlets in accordance with AS 3740.

### COVERAGE

This will vary with the porosity of the substrates. Two coats are recommended to get optimum performance.

A 20kg unit (15 Litres) will cover approximately 17.2m<sup>2</sup>. A 5.3kg unit (4 Litres) will cover approximately 4.6m<sup>2</sup>.

### PACKAGING

ARDEX WPM155 Rapid Liquid Membrane 20kg (approximately 15 litres) and 5.3kg (approximately 4 litres).

ARDEX STB 15-75 Tape roll - 75mm wide x 15 metres in length.

### SHELF LIFE

12 months when stored in the original unopened packaging in a dry place at 23°C.

### CLEANING

Wash hands, brushes, rollers with water while product is still fresh. For cured material, use mineral turpentine.

### PRECAUTIONS

All surfaces must be structurally sound, dry and free from all surface contaminants.

Do not use ARDEX WPM 155 Rapid under the following conditions:

- Areas subject to negative hydrostatic pressure or rising damp, unless treated with ARDEX WPM 300.
- Wet substrates or green screeds/concrete – need to be sealed with one coat ARDEX WPM 300 as described earlier.
- Surface temperatures below 10°C or greater than 35°C.
- Do not expose to prolonged UV conditions.

### SAFETY DATA

ARDEX WPM 155 Rapid is a non-hazardous and non-dangerous product. Wear protective clothing when handling. Wash off splashes with clean water. In case of eye contamination, rinse thoroughly with clean water. If irritation persists, seek medical advice. additional information is listed in the material safety data sheet.