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# ARDEX WPM 155

## (Undertile PU Acrylic Hybrid Membrane)

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Modified polyurethane waterproof membrane

Can be tiled over – excellent adhesion with ARDEX tile adhesives

Environmentally friendly – solvent free, suitable for confined areas

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

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# ARDEX WPM 155

## (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.

#### Particleboard

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 is suitable to use over ARDEX WPM 300, or WPM 270 or WPM 265 or ARDEX Multiprime.

### APPLICATION

ARDEX WPM 155 should be thoroughly mixed to a uniform mix 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 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 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 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 is applied over neutral cure silicone bond breaker, or is reinforced. Make sure these areas are dry before tiling. In some cases, this can vary from 24 hours to 48 hours.

Full cure of the product is 3 days after application at 23°C. Drying times will vary depending on humidity, surface temperature and porosity of substrates.

### PACKAGING

20kg (approximately 15 litres) and 5.3kg (approximately 4 litres).

### 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 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.

## SAFETY DATA

ARDEX WPM 155 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.

## QUALITY PRODUCT

ARDEX WPM 155 is manufactured and tested to ARDEX procedures which are maintained in accordance with Quality System Standard ISO 9001.

## TECHNICAL DATA

### Properties of liquid material

**Appearance** Blue/Grey

**Density (kg/L)  
AS 4459:1999** 1.36

### Properties of the cured membrane

**Tensile strength,  
MPa AS 1145** 1.2 MPa

**% Elongation** >350%

**Shore A Hardness** 65–75

**Water vapor transmission  
(AS4858/ASTME96)** 1.2g/24hrs/m<sup>2</sup>

**VOC content** 42g/L

## DISCLAIMER

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