



ARDEX WPM 390

Undertile PU Membrane

Modified Polyurethane Waterproof Membrane

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DESCRIPTION

Ardex WPM 390 (Undertile PU) is a water-based polyurethane-acrylic waterproofing membrane developed for high performance under-tile waterproofing.

- Tough flexible film
- UV stable when left exposed
- Long shelf life
- Environmentally friendly - solvent free - suitable for confined areas
- Can be tiled over- good adhesion with Ardex tile adhesives
- Excellent adhesion to a wide range of substrates
- Fast drying

RANGE OF APPLICATION

For commercial and residential internal/external wet areas, balconies, decks and other areas that will be tiled or otherwise protected from regular foot traffic.

SUBSTRATES

Concrete

Cured for minimum 28 days, wet concrete should be allowed to dry thoroughly or sealed with one coat of Ardex WPM 300 (HydrEpoxy 300) at coverage rate of 3m² per litre.

Renderers and screeds

Cured for min 7 days. Wet render should be allowed to dry thoroughly or sealed with one coat of Hydrepoxy 300 at coverage rate of 3m² per litre and allowed to cure overnight.

Fibre cement sheets

Wet area grades only.

Plasterboard

Wet area grades only.

Plywood

Structural plywood (PAA branded) or marine grade.

PRIMERS

Ardex WPM 390 (Undertile PU) is suitable to use over Ardex WPM 300 (HydrEpoxy 300), Ardex Sheltercoat or Superflex Solvent or Water based primer or Ardex Multiprime.

APPLICATION

Ardex WPM 390 (Undertile PU) 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 the instructions. Apply Ardex WPM 390 (Undertile PU) 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 8m² (based on two coats)

For walls

A dry film thickness of 0.5 mm is required. A 20kg unit (15 litres) will cover approximately 16m².

DRYING TIME

Recoat time is 1-2 hours in 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 390 (Undertile PU) is applied over silicone bond breaker. 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

20 kgs (approximately 15 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 390 (Undertile PU) under the following conditions:

- Areas subject to negative hydrostatic pressure or rising damp
- Wet substrates - need to be sealed with one coat Ardex WPM 300 (HydrEpoxy 300) as described earlier
- Surface temperature is below 10°C or greater than 35°C

SAFETY DATA

Ardex WPM 390 (Undertile PU) is non-toxic. However contents should not be swallowed or inhaled. In case of eye contamination, rinse thoroughly with clean water. If irritation continues, seek medical advice. MSDS sheets are available from Ardex upon request.

QUALITY PRODUCT

Ardex WPM 390 (Undertile PU) 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	Mauve Paste
Viscosity	(6/20/25°C)
AS 1580:1990	40,000 cps
Density (kg/L)	
AS 4459:1999	1.36
Solids, by mass	
AS1580:1992	63-67%
Volume solids	
AS1580-	52.5%
Properties of the Cured Membrane	
Tensile Strength	
MPa AS 1145	4.08 MPa
% Elongation	300
Shore A Hardness	70-80
After 14 days UV Exposure (AS 1145/2433)	
Tensile Strength	
AS 1145	4.50 MPa
% Elongation	307
Shore A Hardness	80-90