

# ARDEX WPM 001

## Superflex Bathroom & Balcony Premixed - 1 Part Undertile Waterproofing Membrane



### PRODUCT DESCRIPTION

Ardex WPM 001 (Superflex Bathroom & Balcony Premixed 1 Part) is a tough, ready to use waterproofing membrane specifically designed for use under tiles. Ardex WPM 001 has been uniquely formulated with synthetic microfibres to increase its strength and eliminate the need for a separate reinforcement mat. Ardex WPM 001 is based on the most advanced acrylic polymer technology, and is totally resistant to re-emulsification once cured.

Ardex WPM 001 is flexible, safe to use, low in odour, and is fully compatible with polymer modified tile adhesives. Ardex WPM 001 is one of the fastest drying one part acrylic membranes on the market – normally ready to tile in 48 hours @ 23°C.

Ardex WPM 001 meets the Green Building Council of Australia Green Star IEQ-13 requirements for Architectural Sealant when tested in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC) in Various Materials as referenced by South Coast Air Quality Management Division (SCAQMD) Rule 1168.

### FEATURES/BENEFITS

- Fast drying Ardex WPM 001 can be tiled over in 48 hours in non critical areas\*
- Liquid reinforced: Excellent strength, eliminates need for reinforcing mat
- Flexible: Accommodates normal building movement class 3 membrane as per AS/NZ 4858: 2004 Wet Area Membranes
- Advanced acrylic: Will not re-emulsify once cured
- Designed for tiling - Fully compatible with Ardex tile adhesive systems
- Water based, safe to use, low odour & easy cleaning
- CSIRO Appraisal #91 for undertile waterproofing in shower recesses
- Conforms to the requirements of AS/NZ 4858: 2004 Wet Area Membranes. (Ref: CSIRO Report 3779)

\*Critical areas include areas where the membrane is applied at greater than 0.5mm or over impermeable substances such as over bond breakers or incorporating other reinforcement. Longer drying times are necessary in these areas.

### APPLICATION RANGE

#### Performance Levels

Commercial and residential

#### Location

Internal wet areas, balconies, decks, and other areas that will be tiled or otherwise protected from regular foot traffic.

#### Surfaces

Walls & floors

#### Substrates

#### Concrete

Cured for min. 28 days or sealed when set with one coat of Ardex WPM 300 (HydrEpoxy 300) at a coverage rate of 3.0 square metres per litre and allowed to cure overnight. External wet concrete should be allowed to dry thoroughly or sealed with one coat of Ardex WPM 300 as above.

#### Renders and screeds

Cured for min. 7 days or sealed when set with one coat of Ardex WPM 300 at a coverage rate of 3.0 square metres per litre and allowed to cure overnight. Wet render should be allowed to dry thoroughly or sealed with one coat of Ardex WPM 300 as above.

#### Fibre cement

Suitable for wet area grade fibre cement.

#### Plasterboard

Wet area grade only.

#### Plywood

Structural plywood (PAA branded), marine grade or other wet area grade only.

#### Strandsarking

Strandsarking sheets are 3.60m x 800mm x 16.3mm. Strandsarking sheets shall be laid with staggered joints. (brick bond) The edges of all sheets shall be supported with dwangs or framing. The maximum allowable spacing for supporting roof framing is 400mm.

When a roof has a pitch below 2 degrees it is recommended to use Strandfloor H3.1.

Strandsarking sheets may be butt jointed with an Ardex release tape used over the join.

Fixings.

Shall be 50mm x 4.8mm diameter stainless steel screws fixed at 150mm centres.

If fixings are bought into 100mm centres on the intermediate supports this will allow use in wind zones very high and extra high without any further treatment. Fixings must be positioned no closer than 10mm from the sheet edges.

TABLE 1

	Thickness per Coat		Total Dry Film Thickness (2 coats)	Theoretical Coverage		Per Unit
	Dry Film	Wet Film		Per coat	For 2 coats	
FLOORS	0.5mm	1.0mm	1.0mm	15m <sup>2</sup>	7.5m <sup>2</sup>	20kg(15L) unit
WALLS	0.25mm	0.5mm	0.5mm	30m <sup>2</sup>	15m <sup>2</sup>	20kg(15L) unit

**Particleboard**

Wet area grade, internal use only (special preparation is required – contact Ardex).

**Permanent**

In conditions of permanent immersion,

**Immersion**

It is recommended that Ardex WPM 002 (Superflex Two Part) is used. Must be covered with tiles for full immersion.

Contact Ardex for use over existing membranes, covering materials, and any other substrates not listed.

**SPECIFICATION CLAUSE**

**ARDEX WPM 001 (Superflex Premixed)**

The waterproofing membrane shall be Ardex WPM 001: a one part acrylic modified fibre reinforced membrane formulated to provide a tough, long lasting water barrier under tiling systems.

**PACKAGING**

Single component: 20kg (approx 15 litres) or 6.5kg (approx 5 litres).

**SHELF LIFE**

12 months when stored in the original unopened packaging, in a dry place at 23°C. Do not store in direct sunlight. Replace lid tightly after use. Use remaining contents from part used containers within 3 months.

**COVERAGE**

Two coats are recommended for an effective waterproof membrane.

Coverage will vary depending on the porosity of the surface.

One 20kg (15 litre) unit will cover approximately 7.5-15m<sup>2</sup> (based on two coats) depending on area requirements between wall and floor surfaces to be treated. Refer Table I.

**DRYING TIMES**

**Recoat time**

1-2 hours at (23°C/50% RH) between first and second coats. Alternatively, if a polyester mat is used between coats then the second coat can be applied whilst the first coat is still wet.

**Dry through**

The slowest drying areas are those where the membrane has been applied over a silicone bond breaker, eg. wall and floor junctions. The membrane cannot be tiled over until these critical areas are completely dry. Ardex WPM 001 is totally dry in 48 hours at 23°C/50% RH, but can take up to 72 hours at 10°C/50% RH in corners or for thick films.

**Fully cured**

The shower should not be used until the membrane has reached its full strength. Ardex WPM 001 membrane is fully cured after 3 days at 23°C, or after 5 days at 10°C.

Drying times will vary depending on humidity, surface temperature and surface porosity.

Do not apply on substrates where the surface temperature is below 10°C or above 35°C.

**CLEANING**

Wash hands, brushes, rollers, etc, with water while the membrane is still fresh. Remove cured material with mineral turpentine.

**SAFETY PRECAUTIONS**

Do not use the product in the following situations:

- Areas subject to negative hydrostatic pressure or rising damp, unless treated with Ardex WPM 300.
- Where the substrate is wet – wet surfaces can be sealed with one coat of Ardex WPM 300 at a coverage rate of 3.0 square metres per litre and allowed to cure overnight.
- Where rain is imminent.
- Where the membrane will be left exposed and subjected to regular foot traffic.
- On glazed, glass or other totally impervious surfaces (eg. areas pre-treated with water repellants).
- Where the surface temperature is below 10°C or greater than 35°C.
- All floor areas must have adequate falls either built into the substrate or achieved with a sand/cement screed prior to application of the Ardex WPM 001.

For substrates or situations other than those listed contact Ardex.

**SAFETY DATA**

Ardex WPM 001 is non-hazardous and non dangerous. It may produce discomfort of the eyes, respiratory tract and skin. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin. Wear eye/face protection. In case of contact with eyes, rinse with plenty of water and seek medical advice.

# ARDEX WPM 001

## Superflex Bathroom & Balcony Premixed - 1 Part Undertile Waterproofing Membrane

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

### QUALITY PRODUCT

Ardex WPM 001 is manufactured and tested to Ardex procedures which are maintained in accordance with Quality System Standard ISO 9001.

### USER NOTES

The technical details and recommendations 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 the responsibility of the user to ensure that the product is used in accordance with Ardex instructions and in applications for which they are intended.

### APPLICATION

Apply Ardex WPM 001 by brush or roller. A medium nap (12-15mm pile) paint roller is recommended. New rollers should be dampened with water before being used for the first time.

For best results with a paint brush use a good quality, 50mm long bristle variety.

To achieve the required dry film thickness per coat, application must consist of laying the product onto the surface and light finish the surface. Do not try to apply in the same manner as a building paint. A conventional building paint is normally applied at 25-40 micrometers wet film thickness while Ardex WPM 001 needs to be applied at between 0.5 and 1.0 mm per coat depending on product and application (Refer Table 1).

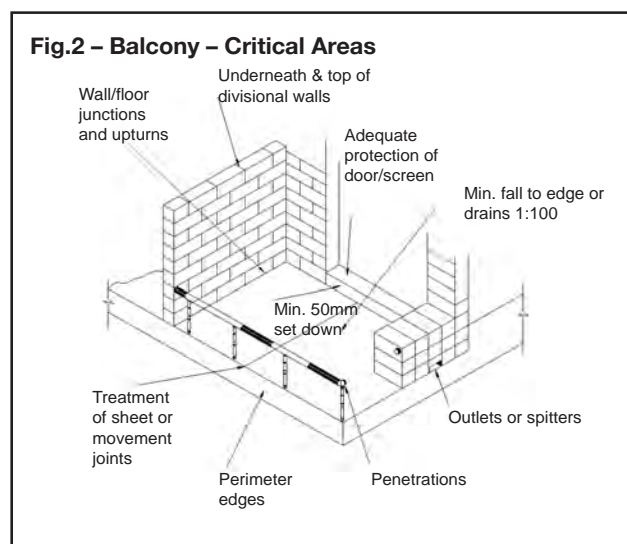
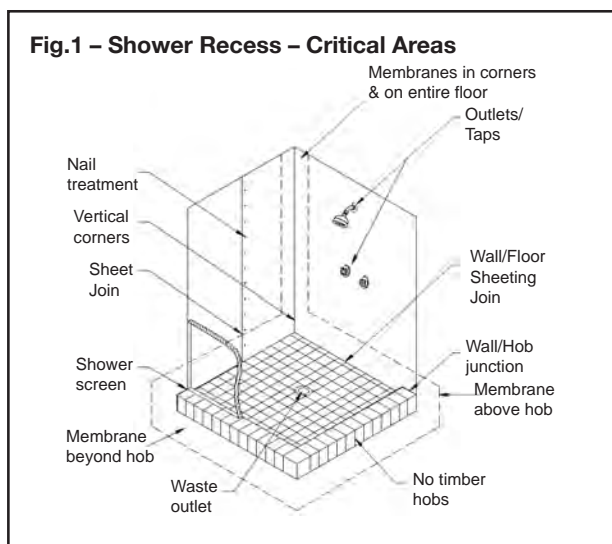
### Critical Areas:

#### INTERNAL WET AREAS

1. Construction should be in accordance with Australian 3740 - 2004 Waterproofing of wet areas

within residential buildings.

2. All render and tile bed requirements should be completed before application of the membrane and tiles or other floor coverings should be direct bonded to the membrane.
3. Ensure wall & floor sheets are installed as per sheet manufacturer's recommendations.
4. Ensure suitable brick/concrete hobs are used (do not use timber).
5. Ensure that falls to the waste are min 1:60 (ie. approx. 30mm in 2mtr)) before waterproofing. Ensure outlet pipes are fixed securely and that the waste or drainage flanges are recessed into the floor.
6. Avoid sheet joints in shower recess floor. Ensure that sheets are securely fixed to the wall at the bottom edge, and sheet joints are sealed with a neutral cure silicone sealant spread approximately 6mm on either side of the joint.
7. Treat nail and screw holes with neutral cure silicone sealant.
8. Seal the perimeters of taps, shower outlets and waste outlets with neutral cure silicone sealant.
9. Apply a bead of neutral cure silicone sealant to all horizontal and vertical corners.
10. Apply a bead of neutral cure silicone sealant to the junction of the hob or angle and walls. Spreading the sealant to 6mm on either side of the joint.
11. Waste outlets shall incorporate a puddle flange or similar in accordance with AS3740 & the top surface shall be set flush with the surface to which the membrane is to be applied. A bead of neutral cure silicone shall be applied across the intersection of the puddle flange and the screed/floor.



12. Apply the membrane to the entire shower recess floor and down into waste or drainage flange. Apply the membrane over the hob and at least 150mm beyond the outside edge of the hob (ideally to entire wet area floor).
13. Apply the membrane 1800mm up the walls or to the height of the shower rose within the shower recess.
14. Install the shower screen to inside edge of the hob.

### BALCONIES AND DECKS

1. Ensure that the deck is constructed with falls to edge/drains of min 1:100 (ie. 20mm in 2m) or else achieve the fall with a sand/cement screed.
2. Ensure a min set down (step down) of 50mm to the finished floor level (ie. top of tiles).
3. Ensure suitable flashing is installed, ideally prior to the installation of the balcony screen/ sliding door.
4. Treat any sheet joints with a neutral cure silicone prior to waterproofing.
5. Prepare and seal all wall/floor junctions with a bead of neutral cure silicone.
6. Apply the membrane up the step down and as far up underneath the screen door flashing as possible (ideally waterproof prior to installing door).
7. Where possible, apply the membrane prior to building divisional walls, or other items such as planter boxes.
8. Apply the membrane to the entire balcony floor and at least 50mm up the wall above the top surface of the finished tiles and finished below the wall drainage vents.
9. Apply the membrane to the top of the parapets and divisional walls, or else install suitable metal capping.
10. Apply the membrane down over the front edge of the balcony onto the drip rail.
11. Carefully seal any gaps around balcony penetrations prior to applying the membrane.
12. Apply the membrane down into outlets and drains, ensuring excess material is removed.
13. Ensure all weep holes are above the membrane application area.

### APPLICATION NOTES

#### Surface preparation

- Ensure all surfaces are structurally sound and totally dry. The pores of concrete surfaces should be open (absorbent surface). All sheet substrates must be securely fixed in accordance with the manufacturers instructions.
- Falls to outlets of at least 1:60 or approx. 30mm

in 2mtr (wet areas) or 1:100 externally, must be achieved prior to tiling.

- The surface to be coated should be free from dust, oil, paint, curing compounds and any other contaminating materials.
- Damaged concrete should be repaired (leveled) and surface defects including all cracks and sharp protrusions should be treated prior to the application of the membrane.
- Remove laitance on concrete or screeds by mechanical means.
- Highly dense (>40MPa) or steel trowelled concrete should be roughened by suitable mechanical means (shot blasting, grinding, etc).

#### Priming

The primer is a critical part of the waterproofing system. Apply one coat of Ardex WPM 265 (Sheltercoat/ Superflex Water Based Primer) by brush or roller to all areas to be waterproofed including the floor waste. Allow the primer to completely dry prior to the application of the Ardex WPM 001 membrane. This will take around 20-30 minutes depending upon weather conditions and porosity of the substrate. Coverage is approximately 6m<sup>2</sup> per litre. Plastic (eg. PVC) pipes should be primed with a solvent based plumbers pink primer. Prime metal surfaces with a suitable metal primer such as epoxy polyamide primer.

### GENERAL APPLICATION

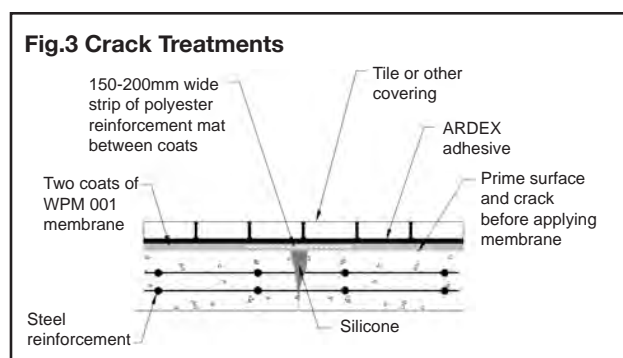
#### Crack preparation

##### Cracks <2mm:

Clean and remove any loose particles in the crack. Prime the crack and adjacent area carefully with Ardex WPM 265 and allow to dry before applying two coats of Ardex WPM 001 membrane in a band at least 200mm wide equidistantly across the crack, along the length of the crack.

##### Cracks 2-6mm:

(Refer Fig. 3) Prepare and prime the crack as above. Apply a bead of neutral cure silicone into the crack and extend it 6mm either side. Apply a 300mm wide band of Ardex WPM 001 equidistantly across the crack



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along the entire length of the crack. Place a 190mm wide band of Ardex "Deckweb" polyester woven cloth reinforcement over the applied membrane. Thoroughly wet out the cloth preferably using a fluted roller, and remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat.

### Cracks >6mm:

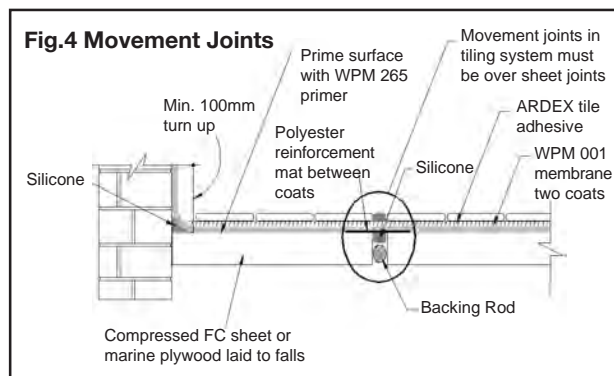
Contact your local Ardex representative.

### Movement/construction joints

#### Movement joints (<6mm)

Use same procedure as in crack preparation.

Clean and prime the joint before filling it with a bead of neutral cure silicone and extending it 6mm each side of joint. Apply a 300mm wide band of Ardex WPM 001 equidistantly across the crack along the entire length of the crack. Place a 190mm wide band of Ardex "Deckweb" polyester woven cloth reinforcement over the applied membrane. Thoroughly wet out the mat and



remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat.

#### Construction joints (>6mm)

Use the same procedure as above, but replace the reinforcing mat with 120mm of Ardex Coving Bandage. Note: if tiling, movement joints should be taken to the surface of the tiles. Fill the joints between the tiles immediately above the movement joints with an appropriate joint sealant. (Refer Fig.4)

#### Corners & coving areas

After priming with Ardex WPM 265 and allowing to dry, apply a generous bead (12mm) of neutral cure silicone sealant to seal all junctions between two substrates in coving areas and corners. Smooth over the silicone so that it extends 6mm up the wall and 6mm over the floor

and allow to touch dry.

Apply a first coat of Ardex WPM 001 to the area and allow the membrane to dry.

Apply a second coat ensuring that excess product is removed from the junction (the final dry film thickness should be minimum of 1.0mm). Alternatively, if a polyester reinforcement mat is used between coats then the second coat can be applied as soon as the mat is fully bedded into the first coat.

### WALL/FLOOR JUNCTION

After priming with Ardex WPM 265 and allowing to dry, apply a generous bead (12mm) of neutral cure silicone sealant to seal all junctions between two substrates. Smooth over the silicone so that it extends 6mm up the wall and 6mm over the floor and allow to touch dry. Place a 190mm wide band of Ardex "Deckweb" polyester woven mat reinforcement over the applied membrane. Thoroughly wet out the cloth and remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat. The Ardex WPM 001 should be applied to at least 100 mm up the wall surfaces as per the recommendations for the application of Ardex WPM 001 to floors.

### Walls

Two coats of Ardex WPM 001 are required to achieve a minimum total dry film thickness of 0.5mm.

After priming with Ardex WPM 265 and allowing to dry, apply two coats of Ardex WPM 001 (to achieve a minimum dry film thickness of 0.5mm) in two opposite directions. Wall sheet joints should be treated with a neutral cure silicone, PVC duct tape or base jointing compound. In balcony situations take the membrane up underneath any existing cover flashing or install appropriate flashing. Allow the first coat to dry before applying the second coat.

### Floors

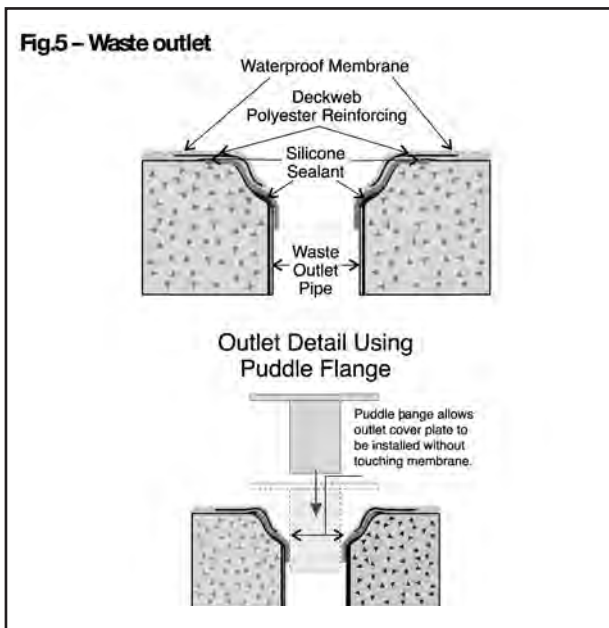
Two coats of Ardex WPM 001 are required to achieve a minimum total dry film thickness of 1.0mm. The flooring recommendations should be extended at least 150 mm up all perimeter walls.

Prime the surface with Ardex WPM 265 and allow to dry.

Apply the first coat over the primed surface and allow it to dry (1-2 hours at 23°C, 50%RH) before applying a second coat in an opposite direction. In shower recesses a drainage flange must be installed on all timber/sheeted floors, and are strongly recommended on all other substrates. Where possible rebate the flange into the floor. Seal the perimeter of the flange with neutral cure silicone treatment. If a flange is not installed the membrane must be applied down into the pipe. (Refer Fig.5) Allow the membrane to dry completely before tiling. Refer drying times above.

### Waste Outlet

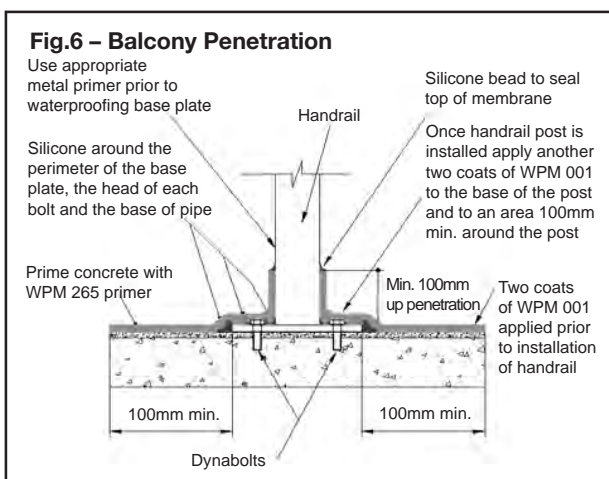
Prime the surface with Ardex WPM 265 and allow to dry. Surfaces of the outlet flange must be primed with an appropriate primer.



Apply Ardex WPM 001 over the adjacent floor surface extending down into the waste outlet flange overlapping the edge of flange by at least 30mm. Place Ardex “Deckweb” polyester woven mat reinforcement over the applied membrane. Thoroughly wet out the cloth and remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat. (Refer Fig. 5)

### Balcony penetrations (Refer Fig.6)

All upstands are to be mechanically fixed through the membrane, which must be fabricated with a base plate flange.



Prime the metal with an appropriate metal primer such as an epoxy polyamide primer and allow to dry. Apply a 10mm bead of neutral cure silicone around the perimeter of the penetration. Apply the first coat of Ardex WPM 001 on the substrate and the flanged metal.

Allow first coat to dry before applying a second coat ensuring a finished dry film thickness of no less than 1.0mm is achieved. Place a suitable flashing collar around the penetration sealing it with a suitable sealant.

### Tiling systems

It is advisable to conduct a flood test of the shower once the membrane has cured (normally after 72 hours), and before the tiling commences. A broad range of Ardex tile adhesives can be used over Ardex membranes. Contact Ardex or your nearest Ardex stockist for advice on the most suitable system.

### TECHNICAL DATA

#### Ardex WPM 001 (Superflex Premixed) Characteristics of liquid

Form & Colour	Blue viscous paste
Type	Single part
Specific Gravity	Approx. 1.34kg/litre
pH of Liquid	8.5
Viscosity of Liquid (RVT Brookfield, spindle 7 speed 10)	52,000cps
Non Volatile Matter (volume) AS1321.10	50.3%±1
Tensile Strength 7 days dry AS1145	1.04 MPa
Full Cure	1.92 MPa
Elongation at Break 7 days dry AS1145	780%

Conforms to requirements of class 3 membrane of AS/NZ 4858: 2004 Wet Area Membranes.

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

# ARDEX WPM 002

## Superflex Bathroom & Balcony - 2 Part 2 Part Undertile Waterproofing Membrane



### PRODUCT DESCRIPTION

Ardex WPM 002 (Superflex Bathroom & Balcony 2 Part) is a tough, fast drying two component waterproofing membrane specifically designed for use under tiles. The product has been uniquely formulated with synthetic microfibres to increase its strength and eliminate the need for a separate reinforcement mat. Ardex WPM 002 is based on the most advanced acrylic polymer technology, and is totally resistant to re-emulsification.

Ardex WPM 002 is flexible, safe to use, low in odour, and is fully compatible with polymer modified tile adhesives. Ardex WPM 002 is one of the fastest drying acrylic membranes on the market – normally ready to tile in 16-24 hours @ 23°C.

Ardex WPM 002 meets the Green Building Council of Australia Green Star IEQ-13 requirements for Architectural Sealant when tested in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC) in Various Materials as referenced by South Coast Air Quality Management Division (SCAQMD) Rule 1168.

### FEATURES/BENEFITS

Fast drying Ardex WPM 002 can be tiled over in 16-24 hours, or 4 hours @ 23°C/50% RH in non critical areas\*.

Features benefits

- Liquid reinforced: Excellent strength, eliminates need for reinforcing mat.
- Flexible: Accommodates normal building movement.
- Advanced acrylic: Will not re-emulsify.
- Designed for tiling: Fully compatible with ABA/Ardex tile systems adhesives.
- Water based, safe to use, low odour and easy cleaning for undertile waterproofing in shower recesses by independent testing authority.
- Excellent exterior.
- Conforms to the requirements of AS/NZ 4858:2004 Wet Area Membranes (Ref: CSIRO Report 3879)

\*Critical areas include areas where the membrane is applied at greater than 0.5mm or over impermeable substances such as over bond breakers or incorporating other reinforcement. Longer drying times are necessary in these areas.

### APPLICATION RANGE

#### Performance levels

Commercial and residential.

#### Location

Internal and external wet areas, balconies, decks, and other areas that will be tiled or otherwise protected from regular foot traffic.

#### Surfaces

Walls and floors.

#### Substrates

##### Concrete

Cured for min. 28 days or sealed when set with one coat Ardex WPM 300 (HydrEpoxy 300) at a coverage rate of 3.0 square metres per litre and allowed to cure overnight. Wet concrete should be allowed to dry thoroughly or sealed with one coat of Ardex WPM 300 as above.

##### Renders and Screeds

Cured for min. 7 days or sealed when set with one coat Ardex WPM 300 at a coverage rate of 3.0 square metres per litre and allowed to cure overnight. Wet render should be allowed to dry thoroughly or sealed with one coat of Ardex WPM 300 as above.

##### Fibre cement

Wet area grade only.

##### Plasterboard

Wet area grade only.

##### Plywood

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

##### Strandsarking

Strandsarking sheets are 3.60m x 800mm x 16.3mm. Strandsarking sheets shall be laid with staggered joints. (brick bond) The edges of all sheets shall be supported with dwangs or framing. The maximum allowable spacing for supporting roof framing is 400mm.

When a roof has a pitch below 2 degrees it is recommended to use Strandfloor H3.1.

Strandsarking sheets may be butt jointed with an Ardex release tape used over the join.

Fixings.

Shall be 50mm x 4.8mm diameter stainless steel screws fixed at 150mm centres.

If fixings are bought into 100mm centres on the intermediate supports this will allow use in wind zones very high and extra high without any further treatment. Fixings must be positioned no closer than 10mm from the sheet edges.

TABLE 1

	Thickness per coat		Total dry film thickness (2 coats)	Theoretical coverage		Per unit
	Dry film	Wet film		Per coat	For 2 coats	
FLOORS	0.6mm	0.9mm	1.2mm	32m <sup>2</sup>	16m <sup>2</sup>	40kg kit
WALLS	0.4mm	0.6mm	0.8mm	48m <sup>2</sup>	24m <sup>2</sup>	40kg kit

### Particleboard

Wet area grade, internal use only (special preparation is required – contact Ardex). Not recommended for external use (refer Ardex).

### Permanent Immersion

In conditions of permanent immersion, it is recommended that WPM 002 must be covered with tiles for full immersion applications.

Contact Ardex for use over existing membranes, covering materials, and any other substrates not listed.

### SPECIFICATION CLAUSE

#### Ardex WPM 002 (Superflex Two Part)

The waterproofing membrane shall be Ardex WPM 002, a two component cementitious acrylic modified fibre reinforced membrane formulated to provide a tough, long lasting water barrier under tiling systems.

### PACKAGING

Two component: 20kg (approx 20 litres) liquid pail/ 2 x 10kg bags powder.

### SHELF LIFE

12 months when stored in the original unopened packaging, in a dry place at 23°C. Do not store in direct sunlight. Replace lid tightly after use. Use remaining contents from part used containers within 3 months.

### COVERAGE

Two coats are recommended for an effective waterproof membrane. Coverage will vary depending on the porosity of the surface.

One 40kg kit will cover approximately 16-24m (based on two coats) depending on area requirements between wall and floor surfaces to be treated.

### DRYING TIMES

Curing time will vary depending on temperature and humidity.

### Recoat time

1-2 hours (23°C/50% RH) between first and second coats. Alternatively, if a polyester mat is used between coats then the second coat can be applied whilst the first coat is still wet.

### Dry through

The slowest drying areas are those where the membrane has been applied over a silicone bond breaker, eg. wall and floor junctions. The membrane cannot be tiled over until these critical areas are completely dry.

Ardex WPM 002 membrane is totally dry in 16 hours at 23°C/50% RH but can take up to 24 hours at 10°C / 50% RH in corners or for thick films.

In areas where bond breakers or additional reinforcement are not used, Ardex WPM 002 can be tiled over after 4 hours at 23°C / 50% RH.

### Fully cured

The shower should not be used until the membrane has reached its full strength. Normally Ardex WPM 002 membranes are fully cured after 3 days at 23°C, or after 5 days at 10°C.

Drying times will vary depending on humidity, surface temperature and surface porosity.

Do not apply on substrates where the surface temperature is below 10°C or above 35°C.

### CLEANING

Wash hands, brushes, rollers, etc, with water while the membrane is still fresh. Remove cured material with mineral turpentine.

### SAFETY PRECAUTIONS

Do not use the product in the following situations:

- Areas subject to negative hydrostatic pressure or rising damp, unless treated with Ardex WPM 300.
- Where the substrate is wet – wet surfaces can be sealed with one coat of Ardex WPM 300 at a coverage rate of 3.0 square metres per litre and allowed to cure overnight.
- Where rain is imminent.
- Where the membrane will be left exposed and subjected to regular foot traffic.
- On glazed, glass or other totally impervious surfaces (eg. areas pre-treated with water repellants).
- Where the surface temperature is below 10°C or greater than 35°C.
- All floor areas must have adequate falls either built into the substrate or achieved with a sand/cement screed prior to application of the Ardex WPM 002.

For substrates or situations other than those listed contact Ardex.

### SAFETY DATA

Ardex WPM 002 Part A is non-hazardous. It may produce discomfort of the eyes, respiratory tract and skin. It should not be swallowed or inhaled. Avoid contact with skin and wear eye/face protection. In case of contact with eyes, rinse with plenty of water and contact a doctor or Poisons Information Centre.



# ARDEX WPM 002

## Superflex Bathroom & Balcony - 2 Part 2 Part Undertile Waterproofing Membrane

Ardex WPM 002 Part B contains cement and is therefore hazardous. It may cause burns and serious damage to eyes. Do not breathe dust and avoid contact with eyes. Wear dust masks, goggles and gloves when handling. Keep container locked up and in a well ventilated place.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

### APPLICATION

Apply Ardex WPM 002 by brush or roller. A medium nap (12–15mm pile) paint roller is recommended. New rollers should be dampened with water before being used for the first time.

For best results with a paint brush use a good quality, 50mm long bristle variety.

To achieve the required dry film thickness per coat application must consist of laying the product onto the surface and light finish the surface. Do not try to apply in the same manner as a building paint. A conventional building paint is normally applied at 25–40 micrometers wet film thickness while Ardex WPM 002 needs to be applied at between 0.6 and 0.9 mm per coat depending on product and application (Refer Table 1).

### Critical areas:

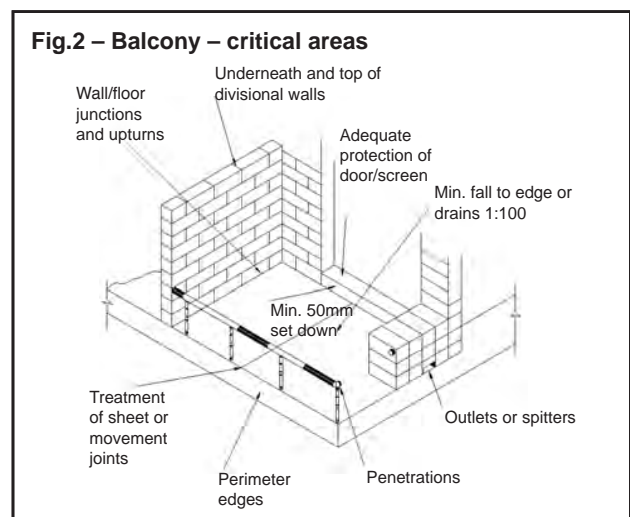
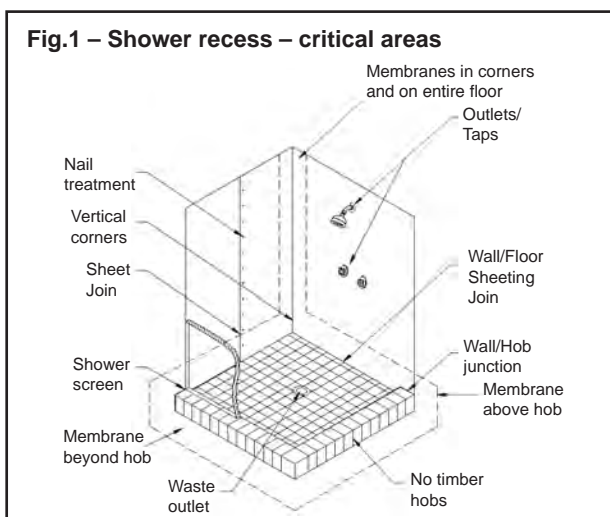
#### INTERNAL WET AREAS

1. Construction should be in accordance with Australian 3740 - 2004 Waterproofing of wet areas within residential buildings.
2. All render and tile bed requirements should be completed before application of the membrane and tiles or other floor coverings should be direct bonded to the membrane.
3. Ensure wall and floor sheets are installed as per sheet manufacturer's recommendations.
4. Ensure suitable brick/concrete hobs are used (do not use timber), and that the top of the hob does

not slope outwards.

5. Ensure that falls to the waste are min 1:60 (ie. approx. 30mm in 2m) before waterproofing. Ensure outlet pipes are fixed securely and that the waste or drainage flanges are recessed into the floor.
6. Avoid sheet joints in shower recess floor. Ensure that sheets are securely fixed to the wall at the bottom edge, and sheet joints are sealed with a neutral cured silicone sealant spread approximately 6mm on either side of the joint.
7. Treat nail and screw holes with neutral cure silicone sealant.
8. Seal the perimeters of taps, shower outlets and waste outlets with neutral cure silicone sealant.
9. Apply a bead of neutral cure silicone sealant to all horizontal and vertical corners, and spread to 6mm on either side of joint.
10. Apply a bead of neutral cure silicone sealant to the junction of the hob or angle and walls, and spread to 6mm on either side of joint.
11. Waste outlets shall incorporate a puddle flange or similar in accordance with AS3740 and the top surface shall be set flush with the surface to which the membrane is to be applied. A bead of neutral cure silicone shall be applied across the intersection of the puddle flange and the screed/floor.
12. Apply the membrane to the entire shower recess floor and down into waste or drainage flange. Apply the membrane over the hob and at least 150mm beyond the outside edge of the hob (ideally to entire wet area floor).
13. Apply the membrane 1800mm up the walls or to the height of the shower rose within the shower recess.
14. Install the shower screen to inside edge of the hob.

#### BALCONIES AND DECKS



1. Ensure that the deck is constructed with falls to edge/drains of min 1:100 (ie. 20mm in 2m) or else achieve the fall with a sand/cement screed.
2. Ensure a min set down (step down) of 50mm to the finished floor level (ie. top of tiles).
3. Ensure suitable flashing is installed, ideally prior to the installation of the balcony screen/sliding door.
4. Treat any sheet joints with a neutral cure silicone prior to waterproofing.
5. Prepare and seal all wall/floor junctions with a bead of neutral cure silicone.
6. Apply the membrane up the step down and as far up underneath the screen door flashing as possible (ideally waterproof prior to installing door).
7. Where possible, apply the membrane prior to building divisional walls.
8. Apply the membrane to the entire balcony floor and at least 50mm up the wall above the top surface of the finished tiles and finished below the wall drainage vents.
9. Apply the membrane to the top of the parapets and divisional walls, or else install suitable metal capping.
10. Apply the membrane down over the front edge of the balcony onto the drip rail.
11. Carefully seal any gaps around balcony penetrations prior to applying the membrane.
12. Apply the membrane down into outlets and drains, ensuring excess material is removed.
13. Ensure all weep holes are above the membrane application area.

## APPLICATION NOTES

### Surface preparation

- Ensure all surfaces are structurally sound and totally dry. The pores of concrete surfaces should be open (absorbent surface). All sheet substrates must be securely fixed in accordance with the manufacturers instructions.
- Falls to outlets of at least 1:60 or approx. 30mm in 2m (wet areas) or 1:100 externally, must be achieved prior to tiling.
- The surface to be coated should be free from dust, oil, paint, curing compounds and any other contaminating materials.
- Damaged concrete should be repaired (leveled) and surface defects including all cracks and sharp protrusions should be treated prior to the application of the membrane.
- Remove laitance on concrete or screeds by mechanical means.

- Highly dense (>40MPa) or steel trowelled concrete should be roughened by suitable mechanical means (shot blasting, grinding, etc).

### Priming

The primer is a critical part of the waterproofing system. Apply one coat of Ardex WPM 265 (Sheltercoat/Superflex Water Based Primer) by brush or roller to all areas to be waterproofed including the floor waste. Allow the primer to be completely dry prior to the application of the Ardex WPM 002 membrane. This will take around 20-30 minutes depending upon weather conditions and porosity of the substrate. Coverage is approximately 6m<sup>2</sup> per litre. Plastic (eg. PVC) pipes should be primed with a solvent based plumbers pink primer. Prime metal surfaces with a suitable metal primer such as epoxy polyamide primer.

## GENERAL APPLICATION

### Crack preparation

#### Cracks <2mm:

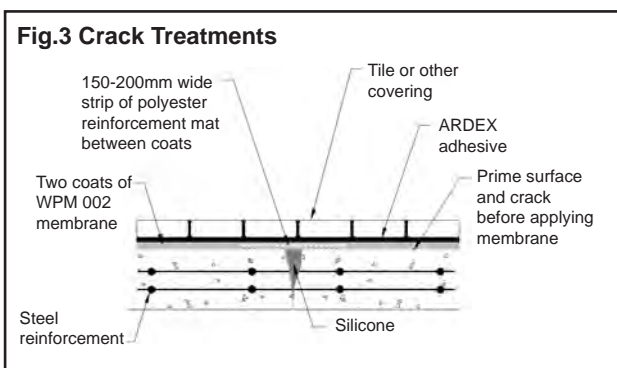
Clean and remove any loose particles in the crack. Prime the crack and adjacent area carefully with Ardex WPM 265 and allow to dry before applying two coats of Ardex WPM 002 membrane, in a band at least 200mm wide equidistantly across the crack, along the length of the crack.

#### Cracks 2-6mm:

(Refer Fig. 3) prepare and prime the crack as above. Apply a bead of neutral cure silicone into the crack and extend it 6mm either side. Apply a 300mm wide band of Ardex WPM 002 equidistantly across the crack along the entire length of the crack. Place a 190mm wide band of Ardex "Deckweb" polyester woven cloth reinforcement over the applied membrane. Thoroughly wet out the cloth and remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat.

#### Cracks >6mm:

Contact your local Ardex representative.



# ARDEX WPM 002

## Superflex Bathroom & Balcony - 2 Part 2 Part Undertile Waterproofing Membrane

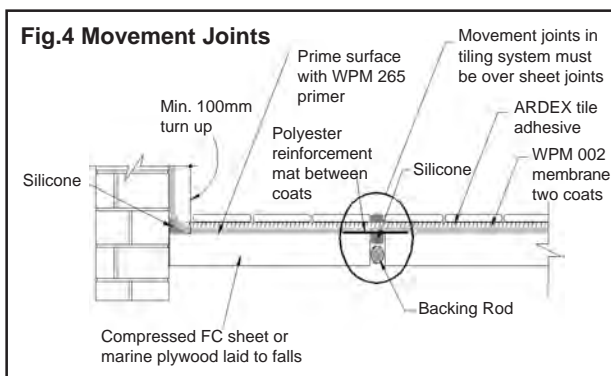
### Movement/construction joints

#### Movement joints (<6mm)

Clean and prime the joint before filling it with a bead of neutral cure silicone and extending it 6mm each side of joint. Apply a 300mm wide band of Ardex WPM 002 equidistantly across the crack along the entire length of the crack. Place a 190mm wide band of Ardex "Deckweb" polyester woven cloth reinforcement over the applied membrane. Thoroughly wet out the cloth and remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat.

#### Construction joints (>6mm)

Use the same procedure as above, but replace the reinforcing mat with 120mm of Ardex Coving Bandage. Note: if tiling, movement joints should be taken to the surface of the tiles. Fill the joints between the tiles immediately above the movement joints with an appropriate joint sealant. (Refer Fig.4)



### Corners and coving areas

After priming with Ardex WPM 265 and allowing to dry, apply a generous bead (16mm) of neutral cure silicone sealant in coving areas and corners. (Refer Fig.5) Smooth over the silicone so that it extends 8mm up the wall and 8mm over the floor and allow to touch dry.

Apply a first coat of Ardex WPM 002 to the area and allow the membrane to dry.

Apply a second coat ensuring that excess product is removed from the junction (the final dry film thickness should be around 1.2mm) Alternatively, if a polyester reinforcement mat is used between coats then the second coat can be applied as soon as the mat is fully bedded into the first coat.

### WALL/FLOOR JUNCTION

After priming with Ardex Superflex WPM 265 and allowing to dry, apply a generous bead (16mm) of neutral cure silicone sealant to seal all junctions between two substrates. Smooth over the silicone so that it extends 8mm up the wall and 8mm over the floor and allow to touch dry. Place a 190mm wide band of

Ardex "Deckweb" polyester woven cloth reinforcement over the applied membrane. Thoroughly wet out the cloth and remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat. The Ardex WPM 002 should be applied to at least 150mm up the wall surfaces as per the recommendations for the application of Ardex WPM 002 to floors.

### Walls

Two coats of Ardex WPM 002 are required to achieve a minimum total dry film thickness of 0.8mm.

After priming with Ardex Superflex WPM 265 and allowing to dry, apply two coats of Ardex WPM 002 (to achieve a minimum dry film thickness of 0.8mm) in two opposite directions. Wall sheets joints should be treated with a neutral cure silicone, PVC duct tape or base jointing compound. In balcony situations take the membrane up underneath any existing cover flashing or install appropriate flashing. Allow the first coat to dry before applying the second coat.

### Floors

Two coats of Ardex WPM 002 are required to achieve a minimum total dry film thickness of 1.2mm. The flooring recommendations should be extended at least 150mm up all perimeter walls.

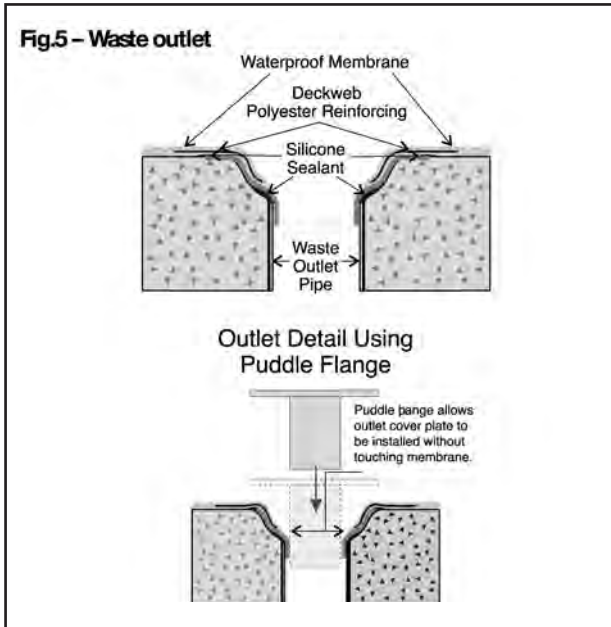
Prime the surface with Ardex WPM 265 water based primer and allow to dry.

Apply the first coat over the primed surface and allow it to dry (1-2 hours at 23°C, 50% RH) before applying a second coat in an opposite direction. In shower recesses a drainage flange must be installed on all timber/sheeted floors, and are strongly recommended on all other substrates. Where possible rebate the flange into the floor. Seal the perimeter of the flange with neutral cure silicone treatment. If a flange is not installed the membrane must be applied down into the pipe. (Refer Fig.5) Allow the membrane to dry completely before tiling. Refer drying times above.

### Waste outlet

Prime the surface with Ardex WPM 265 and allow to dry. Surfaces of outlet flange must be primed with an appropriate primer.

Apply Ardex WPM 002 over the adjacent floor surface extending down into the waste outlet pipe overlapping the pipe surfaces by at least 30mm. Place Ardex "Deckweb" polyester woven cloth reinforcement over the applied membrane. Thoroughly wet out the cloth and remove all creases in, or air pockets under the mat. Immediately apply a second coat to completely fill the mat. (Refer Fig. 5).

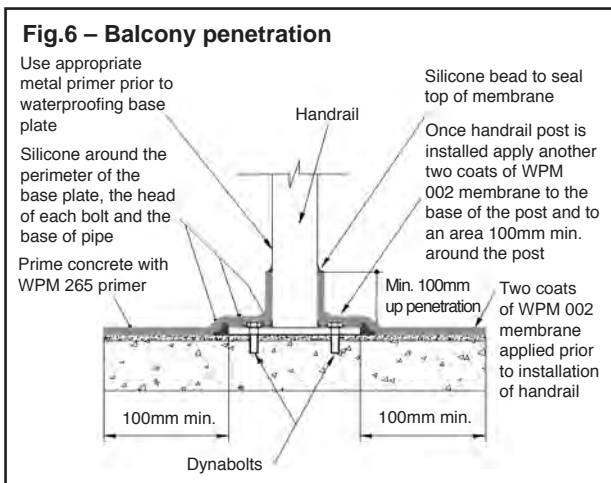


### Balcony penetrations (Refer Fig.6)

All upstands are to be mechanically fixed through the membrane, which must be fabricated with a base plate flange.

Prime the metal with an appropriate metal primer such as an epoxy polyamide primer and allow to dry. Apply a 10mm bead of neutral cure silicone around the perimeter of the penetration. Apply the first coat of Ardex WPM 002 on the substrate and the flanged metal.

Allow first coat to dry before applying a second coat ensuring a finished dry film thickness of no less than 1.2mm is achieved. Place a suitable flashing collar around the penetration sealing it with a suitable sealant.



### Tiling systems

It is advisable to conduct a flood test of the shower once the membrane has cured (normally after 48 hours), and before the tiling commences. A broad range of Ardex tile adhesives can be used over Ardex Superflex membranes. Contact Ardex or your nearest Ardex stockist for advice on the most suitable system.

### QUALITY PRODUCT

Ardex WPM 002 is manufactured and tested to Ardex procedures which are maintained in accordance with Quality System Standard ISO 9001.

### USER NOTES

The technical details and recommendations 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 the responsibility of the user to ensure that the product is used in accordance with Ardex instructions and in applications for which they are intended.

### TECHNICAL DATA

#### Ardex WPM 002

#### Characteristics of components

Form & Colour	Liquid: white, medium viscosity Powder: off white
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#### Characteristics of mixed product

Mixing Ratio	1:1 by weight
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SG of mixed product	1.44kg/litre
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Non Volatile Matter	77±1%
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Colour	light grey/green
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#### Characteristics of cured membrane

#### Shore A hardness ASTM D2240

– dry film	85 – 90
– wet film	75 – 80

#### Tensile Strength

7 days dry AS1145	1.7 MPa
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Full Cure 28 days:	2.9 MPa
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#### Elongation at Break

7 days dry AS1145	332%
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NOTE: Most of the tests have been carried out in the Ardex laboratory under standard conditions (23±2°C, 50±5% RH)

# ARDEX WPM155 *Rapid*

## (Undertile PU Acrylic Hybrid Membrane)

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### 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).

#### Strandsarking

Strandsarking sheets are 3.60m x 800mm x 16.3mm. Strandsarking sheets shall be laid with staggered joints. (brick bond) The edges of all sheets shall be supported with dwangs or framing. The maximum allowable spacing for supporting roof framing is 400mm.

When a roof has a pitch below 2 degrees it is recommended to use Strandfloor H3.1.

Strandsarking sheets may be butt jointed with an Ardex release tape used over the join.

Fixings.

Shall be 50mm x 4.8mm diameter stainless steel screws fixed at 150mm centres.

If fixings are bought into 100mm centres on the intermediate supports this will allow use in wind zones very high and extra high without any further treatment. Fixings must be positioned no closer than 10mm from the sheet edges.

### 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.

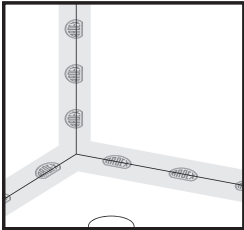
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## RAPID APPLICATION

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)

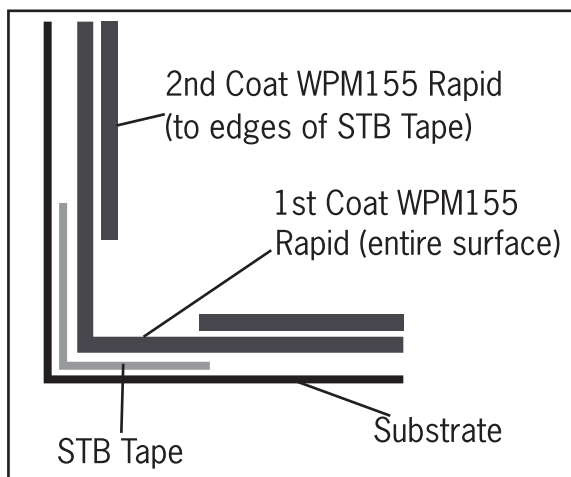
1. Ensure area is free from contaminants and clean making sure to remove all dust and prime fibre cement sheet with an approved primer (listed in the primers section). Apply the tape and use a roller to ensure that a secure bond is made between the tape and substrate and carefully moulded into the corners.



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.

**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/ASTME96):** 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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May 2013

# ARDEX WPM 240

## Shelter Primer Solvent Based Primer

### PRODUCT DESCRIPTION

ARDEX WPM 240 (Shelter Primer) is a solvent based bitumen modified primer to be used to seal and prepare the substrate prior to the installation of the Shelterbit torch-on and Shelterseal self adhesive membranes.

### APPLICATION

Ensure that the surface to be primed is dry and free from dust, oil, paint, curing compounds and any other contaminating materials. Stir contents well before use. Apply by brush, roller or airless spray. ARDEX WPM 240 (Shelter Primer) must be dry before applying membrane.

### COVERAGE

1 litre of ARDEX WPM 240 (Shelter Primer) will cover approximately 5m<sup>2</sup>.

### DRYING TIME

Allow 1-2 hours @ 23°C.

### LIMITATIONS

ARDEX WPM 240 (Shelter Primer) should be used with appropriate mask and breathing apparatus in areas with poor ventilation/air flow.

### PACKAGING

5L and 20L

### STORAGE

12 months in the original unopened packaging stored @ 23°C.

### IDENTIFICATION

Black liquid comprising bitumen dissolved in mineral spirits.

### CLEAN UP

Wash equipment with ARDEX WA98S.

### SAFETY DATA

#### First Aid:

**Swallowed:** Give water to clean mouth. Do not induce vomiting.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water.

**Eyes:** Hold open and flood with water for at least 15 minutes.

**Inhalation:** Remove to fresh air. If breathing is difficult administer oxygen.

If irritation continues seek medical attention promptly.



# ARDEX WPM 247

## Water Based Shelter Primer

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### PRODUCT DESCRIPTION

ARDEX WPM 247 (Shelter Primer) is a water based bitumen modified primer to be used to seal and prepare the substrate prior to the installation of the Shelterbit torch-on and Shelterseal self adhesive membranes.

### APPLICATION

Ensure that the surface to be primed is dry and free from dust, oil, paint, curing compounds and any other contaminating materials. Stir contents well before use. Apply by brush or roller. ARDEX WPM 247 (Shelter Primer) must be dry before applying membrane.

### COVERAGE

1 litre of ARDEX WPM 247 (Shelter Primer) will cover approximately 6m<sup>2</sup>.

### DRYING TIME

Allow 1-2 hours @ 23°C.

### LIMITATIONS

ARDEX WPM 247 (Shelter Primer) should be used with appropriate mask and breathing apparatus in areas with poor ventilation/air flow.

### PACKAGING

5L and 20L containers

### STORAGE

12 months in the original unopened packaging stored at @ 23°C.

### IDENTIFICATION

Black liquid comprising bitumen suspended in water.

### SAFETY DATA

#### First Aid:

**Swallowed:** Give water to clean mouth. **Do NOT** induce vomiting. Contact Doctor or Poisons information Centre.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water. **Do NOT** use solvents to remove bitumen material from skin. Bitumen may be removed using vegetable or medicinal paraffin oil.

**Eyes:** Holding eye(s) open, immediately irrigate (s) with water for at least 15 minutes. Seek medical advice.

**Inhalation:** Not known to be a problem. Remove patient to a well ventilated area. Recovery should be rapid after removal from exposure.

**Hair:** Solidified bitumen in eyelashes, hair etc. can be removed by gently wiping with lint soaked in medicinal paraffin oil.

# ARDEX WPM 179

## Single Component Rubber Waterproofing Membrane

### PRODUCT DESCRIPTION

ARDEX WPM 179 is a one component liquid applied, latex modified, bituminous elastomeric waterproofing membrane. When cured it forms a permanently flexible waterproof lining to most building surfaces. ARDEX WPM 179 is predominately used as a patching or repair membrane for use in conjunction with ARDEX WPM 172 Rapid Cure Rubber Waterproofing Membrane. ARDEX WPM 179 is water based, has almost no odour and is safe to use.

### FEATURES/BENEFITS

- Easily applied: single pack, high build, long pot life.
- Excellent adhesion to substrates
- High elongation – excellent crack bridging capabilities
- Retains flexibility at low temperatures
- Resists ponding water (once fully cured)
- Water based – environmentally friendly and safe to use
- Excellent Chemical Resistance properties
- Conforms to AS4654.2 – 2009 waterproof membranes for exterior use

### ACCEPTABLE SUBSTRATES

- Concrete structures and concrete formwork
- Cement/sand screeds/renders – cured for a min 28 days and 14 days respectively. Alternatively apply a barrier coat of ARDEX WPM 300 (HydrEpoxy 300) as a barrier coating to fresh or wet substrates.
- Masonry and concrete blocks – voids filled, sharp edges and protrusions should be removed to give a flush finish.
- Steel

### TYPICAL APPLICATIONS

- Below ground tanking, basements and retaining walls (not negative hydrostatic situations)
- Bridge decks and concrete structures
- Planter boxes
- Terraces/Balconies (protected)
- Concrete protection from chemicals and water ingress
- Corrosion protection of metal roofs and structures
- Waterproof liners for sewage and containment ponds, dams and tanks
- Underground Structures / Tunnel lining

### BASIC APPLICATION INSTRUCTIONS

#### Surface preparation

The surface to be coated should be clean, sound and free from oils, greases and flaking paint. New concrete should be cured for 28 days (or a barrier coat of ARDEX WPM 300 (HydrEpoxy 300) applied) prior to application of membrane and the surface pores must be open. All cracks or holes exceeding 2mm are to be repaired before application commences. Surface may be slightly damp but must be free from seeping moisture. Surface to which the coating is to be applied should be smooth with no sharp edges to ensure a uniform film thickness is achieved.

#### Priming

ARDEX WPM 179 is self-priming on most surfaces and a primer is therefore not necessary. Wet or freshly placed concrete surfaces should be sealed with Ardex WPM 300 (HydrEpoxy 300) in one coat at a coverage rate of 3.0 square metres per litre. Porous substrates such as aerated concrete should be primed with Ardex WPM 179 Single Component Rubber Waterproof Membrane mixed with 50% water.

#### Application

ARDEX WPM 179 can be applied by brush or trowel to the substrate over the entire area to be repaired or waterproofed. Allow 2-4 hours between coats for ARDEX WPM 179 unless a reinforcement material is used between coats. In this case, the second coat can be applied immediately after the mat has been installed in the first coat. The membrane is fully dry in 24 hours, after which should be protected with ARDEX protection boards or geotextile fabric coated drainage cell.

### COVERAGE AND THICKNESS

As a patching/repair membrane one coat of ARDEX WPM 179 will cover approximately 15m<sup>2</sup> (dry film thickness of 0.6mm). If two coats are required ARDEX WPM 179 will cover approximately 7-8m<sup>2</sup> (dry film thickness of 1.0mm).

### DETAILING OF PETRUSIONS AND EXPANSION JOINTS

ARDEX WPM 179 can be directly applied onto penetrating PVC pipes, re-bars and metal fixings providing a seamless waterproofing layer. Expansion joints and corners should be covered using ARDEX Waterproofing Detail Tape.

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## DRYING TIME

ARDEX WPM 179 is fully dry in 24-48 hours at 25°C and 50% relative humidity. After which it should be protected with ARDEX protection boards or geotextile coated drainage cell.

## SAFETY DATA

ARDEX WPM 179 is non-hazardous and non-dangerous. Do not breathe gas/fumes/vapour/spray. Wear eye/face protection. Use only in well ventilated areas. Keep

container tightly closed and in a well ventilated place. In case of contact with eyes, rinse with plenty of water. In event of irritation seek medical advice.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

## STORAGE

ARDEX WPM 179 is sold in 15kg pails. Shelf life is 12 months when stored in the original unopened container, in a dry place at 25°C. Do not store in direct sunlight. Replace lid tightly after use.

## CLEAN UP & DISPOSAL

Clean all equipment in fresh water immediately after use. Remove cured material with mineral turpentine or white spirits. Dispose of containers in compliance with all relevant local authorities, state, and federal regulations.

## TECHNICAL PERFORMANCE DATA

Appearance and odour:	Thick black fluid, slight odour
Specific gravity:	Approx 1.05kg/L
Application temperature:	10°C – 35°C
Drying Time:	(@23°C, 50% RH)
Recoat	2-4 hours
Hard Dry	24-48 hours
Tensile Strength:	6 days @23°C, 50% RH plus 24 hrs at 70°C, 1.2MPa
Elongation at break:	6 days @23°C, 50% RH plus 24 hours at 70°C, 450%

#### 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.

# ARDEX WPM 265

## Sheltercoat/Superflex Water Based Primer

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### PRODUCT DESCRIPTION

Ardex WPM 265 (Sheltercoat/Superflex Water Based Primer) is a red water based acrylic primer designed to seal the substrate and enhance the adhesion qualities of Ardex Superflex waterproofing membranes. The distinctive colour makes it easy to identify when the primer has been applied. Ardex WPM 265 is fast drying, non-toxic and can be used on a wide variety of substrates.

### FEATURES/BENEFITS

- Promotes bonding between membrane & substrate
- Suitable for most substrates
- Easy application and cleaning
- Primed surfaces are easily identified

### RANGE OF APPLICATION

A heavy duty water based primer formulated to penetrate and seal absorbent surfaces making them a sound base for waterproofing. For commercial and residential use, both internal and external.

#### Surfaces

Walls and floors

#### Substrates

Fibre cement sheets

Plywood (structural PAA and marine)

Particle board (wet area)

Concrete, renders and screeds

Masonry and concrete blocks

Plasterboard surfaces do not require priming

### SURFACE PREPARATION

Ensure that the surface to be primed is free from loose materials, dust, oil, paint, curing compounds and any other contaminating materials. Remove laitance and roughen dense concrete by mechanical means.

New concrete should be left a minimum of 28 days and new render a minimum of 7 days before application commences. All cracks or holes exceeding 2mm are to be repaired before application commences.

### APPLICATION

Apply one coat of the primer by brush, long nap roller, conventional or airless spray over entire area to be waterproofed including cracks. If the substrate is porous, a second coat may be required. Allow primer to dry before applying Superflex waterproofing membrane.

### MIXING

Not required. Do not add water or other materials to the primer.

### COVERAGE

One (1) litre will cover approximately 6 square metres. Coverage will vary depending on the porosity of the surface.

### DRYING TIME

Touch dry in around 20-30 minutes, at 23°C, 50% RH. Drying time will vary depending on humidity, temperature and surface porosity. Important: Ardex WPM 265 must be dry prior to the application of the Ardex membrane.

### CLEANING

Wash brushes and rollers with clean water.

### PRECAUTIONS

- Do not apply when surface temperature is outside range 5-30°C.
- Do not use on glazed, impervious or silicone treated surfaces.
- Metal surfaces must be primed with an appropriate metal primer.
- Do not empty excess primer back into original pack as this may cause contamination.
- Highly dense or steel trowelled substrates may require Ardex WPM 270 (Sheltercoat Solvent Based Primer) to achieve optimal adhesion.
- For substrates other than those listed contact Ardex.

### PACKAGING

20L plastic pail.

### STORAGE

Ardex WPM 265 has a 12 month shelf life when stored in the original unopened packaging, in a dry place above 6°C.

### QUALITY PRODUCT

Ardex WPM 265 is manufactured and tested to Ardex procedures which are maintained in accordance with Quality System Standard ISO 9001. Material Safety Data Sheets are available from Ardex upon request.

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## USER NOTES

The technical details and recommendations 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 responsibility of the user to ensure that the product is used in accordance with Ardex instructions and in applications for which they are intended.

## TECHNICAL DATA

### Product Identity

Form:	one part, acrylic based liquid
Dried Colour:	red
Specific Gravity:	approx 1.03
pH:	8 - 9

### Application Properties

Drying Time:	20 - 30 minutes @ 23°C, 50% RH
Coverage:	6m <sup>2</sup> /litre
Method:	roller, brush, conventional or airless spray

## SAFETY DATA

Ardex WPM 265 is non-toxic. However, the contents should not be swallowed or inhaled. In case of eye contamination, rinse thoroughly with clean water. If irritation continues seek medical advice.

# ARDEX WPM 300

## HydrEpoxy 300

### Water Based Epoxy Membrane

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#### PRODUCT DESCRIPTION

Ardex WPM 300 (HydrEpoxy 300) is a two component water based epoxy polyamide membrane/barrier coating.

Approved for use with potable (drinking) water, independent testing confirms conformity with the requirements of AS4020.2000 & BS6920.

#### FEATURES/BENEFITS

- Non-flammable & negligible odour.
- Can be applied to damp surfaces.
- Can be safely applied to freshly laid hardened (green) concrete.
- Conforms to requirements of the:-  
**Building Code of Australia**  
as a waterproofing membrane.
- Conforms to the requirements of:  
**Australian standard 4020 – 2000**  
and **British Standard 6920**  
for use in contact with potable water.
- When applied directly to the substrate the cured membrane will withstand 250kPa of hydrostatic pressure which is equivalent to a 25 metre head of water.
- When used wet on wet over Ardex WPM 256 (HydrEpoxy 256) the cured membrane will withstand 400kPa of pressure which is equivalent to 40 metre head of water.
- No maximum recoat time provided surface is clean and free from surface contaminants.
- Can be overcoated using almost any decorative or industrial finishing paint.
- Safe to use in sensitive locations (e.g. around food or habitable areas) and environmentally sound.
- Prevents rising damp and the formation of efflorescence when used as a single coat barrier coat.
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, stone and timber.
- Easy clean-up using water.

#### TYPICAL APPLICATIONS

- As a low water vapour transmission coating in the building and construction industries and as a barrier/seal coating over freshly laid or damp concrete.

- As a hydrostatic pressure resistant waterproofing membrane to prevent water seepage or dampness penetration through to the interior of walls and floors.
- As a waterproofing barrier on the negative side in below grade surfaces such as basements, tunnels, liftwells, retaining walls and car parks.
- As a waterproofing membrane or barrier coating over freshly laid hardened (green) concrete, prior to the application of conventional levelling compounds, carpet and tile adhesives.
- As a waterproofing membrane in tanking applications, including potable water containment.
- As a barrier seal coating over damp, green or efflorescence producing concrete prior to overcoating with conventional building paints.

#### LIMITATIONS

The product should be applied whilst the surface temperature is between 10–35°C. The product will cease to cure below 10°C, but will recommence curing when the temperature rises above 10°C. Curing time will also be adversely affected in situations where relative humidity is >85%.

In enclosed areas, ventilation must be provided during the curing cycle to enable adequate evaporation of the water.

Care should be taken when sandwiching adhesives between Ardex WPM 300 and floor coverings to ensure the water vapour transmission of the covering is sufficient to allow the solvent to escape.

Ardex WPM 300 is not classified as a trafficable membrane.

#### BASIC APPLICATION INSTRUCTIONS

##### Surface Preparation

All surfaces to be treated must be structurally sound; and existing coatings, adhesives, efflorescence should be removed to achieve maximum bond strength and resistance to hydrostatic pressure. Surfaces must be cleaned free of dirt, grease, oil, or other surface contaminants.

Holes, non-structural cracks or other surface deformities should be filled with Ardex WPM 300 epoxy mortar or Ardex concrete repair systems and allowed to cure for 2-3 hours before coating is applied.

## Installation

Each component should be individually mixed to form an homogenous component.

Thoroughly mix the two components in the ratio of 1:1 by volume until a homogeneous blend is obtained. Only mix as much as may be used within the pot life and avoid excessive aeration during mixing.

The first coat should be thinned with water, as required depending on the porosity of the surface to be coated (up to 20% for dense surface to 5% for more porous surfaces) to ensure optimum penetration. Thinning of the second coat should be avoided since this increases the difficulty in achieving the required dry film thickness.

When the product is to be applied to dry concrete it is advisable to wet the surface with a fine mist of water before application and allow to just surface dry.

Floors—Spread the material using a squeegee or stiff nylon broom to achieve coverage and finish using a long nap roller.

Walls—Apply the product by roller or spray taking care to achieve required coverage.

Care must be taken to work the material into the surface to fill voids and avoid pinholing. A minimum of two coats is recommended and care should be taken to ensure uniformity of material and the required coverage is maintained. When finishing it is necessary to lay the material onto the surface and lightly finish to achieve the required dry film thickness per coat.

The coverage rate for all surfaces should be a total of 1.5 square metres per litre ( 3.0 square metres per litre per coat) to achieve optimum properties. In the event that this coverage rate is not achieved in two coats, further coats should be applied to achieve a total uniform coverage rate of 1.5 square metres per litre.

Allow to cure for 24 hours before applying adhesives, mortars, levelling compounds, decorative coatings or other surface treatments. Care is necessary to ensure the waterproofing membrane coating is not damaged in any way during subsequent treatments.

It is recommended that the final coating applied to floor surfaces should be allowed to cure for at least 3 days before further treatment to minimize the risks of mechanical damage.

## PACKAGING

4L kit

20L kit

## SAFETY PRECAUTIONS

Ardex WPM 300 Part A and Part B are hazardous goods and may cause sensitization by skin contact. They are harmful by inhalation, in contact with skin and if swallowed. Keep containers tightly closed in a well ventilated place. Avoid contact with skin and eyes. It is strongly recommended that protective clothing is worn at all times during use of epoxy material to prevent contact with skin.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

## CLEAN UP

Wash all equipment in water or water/detergent immediately on completion.

## TECHNICAL DATA

Colour	Grey, Black
Finish	Semi-gloss going to matt with aging
Volume solids	44%
Mixing ratio	1:1 (Part A:/Part B) by volume
Coverage	Must be applied at a rate of 1.5 square metres per litre to achieve an effective waterproofing membrane. Minimum two coats are recommended to achieve uniform coverage.
Wet Film Thickness	300 micrometers per coat
Recoat time	4 hours @ 25°C, 50% RH
Full cure	7 days @ 25°C, 50% RH
Pot life	2 hours @ 25°C 1 hour @ 35°C

The recommended wet film thickness specified produces a nominal dry film thickness of 150 micrometers per coat or 300 micrometers for two coats. The apparent dry film thickness will reduce depending on the porosity of the substrate, however the product absorbed by the substrate forms part of the waterproofing function.



# ARDEX WPM 368

## Single Part Barrier Membrane

### DESCRIPTION

ARDEX WPM 368 is a single component acrylic copolymer membrane that will prevent rising damp, efflorescence and will resist negative hydrostatic pressure when used in accordance with the technical data sheet. It has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, stone and is simple to use by brush, roller or airless spray machine.

ARDEX WPM 368 single part damp-proof is safe to use and can be over-coated using almost any decorative paint. ARDEX WPM 368 can be applied to damp surfaces and freshly laid hardened (green) concrete and conforms to the Building Code of Australia as a waterproof membrane.

### FEATURES/BENEFITS

- Non-flammable and negligible odour.
- Can be applied to damp surfaces.
- Can be safely applied to freshly laid hardened (green) concrete.
- When applied directly to the substrate (dual coat system) the cured membrane will withstand 250kPa of hydrostatic pressure which is equivalent to a 25 metre head of water.
- Can be over coated using almost any decorative or industrial finishing paint.
- Prevents rising damp and the formation of efflorescence when used as a dual coat system.

### TYPICAL APPLICATIONS

- As a low water vapour transmission coating in the building and construction industries and as a barrier/seal coating over freshly laid or damp concrete.
- As a hydrostatic pressure resistant waterproofing membrane to prevent water seepage or dampness penetration through to the interior of walls and floors.
- As a waterproofing barrier on the negative side in below grade surfaces such as basements, tunnels, lift wells, retaining walls and carparks.
- As a waterproofing membrane or barrier coating over freshly laid hardened (green) concrete, prior to the application of conventional levelling compounds, carpet and tile adhesives.
- As a barrier seal coating over damp, green or efflorescence producing concrete prior to over coating with conventional building paints.
- For use as a waterproof barrier prior to applying ARDEX floor levellers and tile adhesives.

### BASIC APPLICATION INSTRUCTIONS

#### Surface preparation

All surfaces to be treated must be structurally sound; and existing coatings, adhesives, efflorescence should be removed to achieve maximum bond strength and resistance to hydrostatic pressure. Surfaces must be cleaned free of dirt, grease, oil, or other surface contaminants.

Holes, non-structural cracks or other surface deformities should be filled with ARDEX WPM 405 (Sheltercrete Additive), sand/cement mortar, or ARDEX concrete repair systems and allowed to cure for 2–3 hours before coating is applied.

#### Installation

**Floors** – Apply the material using a roller or spray to achieve coverage and finish using a long nap roller.

**Walls** – Apply the product by roller or spray taking care to achieve required coverage. When the product is to be applied to dry concrete it is advisable to wet the surface with a fine mist of water before application and allow to just surface dry.

Care must be taken to work the material into the surface to fill voids and avoid pinholing, a minimum of one coat for reducing efflorescence and two coats required for rising damp, waterproofing and waterproofing negative side walls. Care should be taken to ensure uniformity of material and the required coverage is achieved. It is necessary to lay the material onto the surface and lightly finish achieving the required dry film thickness per coat.

### TILING APPLICATIONS

Substrates such as screeds and renders should be normally allowed to dry for 7 days prior to the fixing of ceramic tiles. Alternatively ARDEX WPM 368 can be applied in one coat by brush or roller application at a coverage rate of 3m<sup>2</sup>/L or a WFT of 0.3mm per coat. Broadcast sand is not required.

### FLOORING APPLICATIONS

Where concrete subfloors are damp (moisture content exceeds 5.5% or have a relative humidity of above 70%) ARDEX WPM 368 can be applied as a moisture barrier. Two coats are applied at 3m<sup>2</sup>/L or a WFT of 0.3mm per coat. A single coat of ARDEX WPM 368 applied at 3m<sup>2</sup>/L per coat acts as a moisture stop for 'green concrete' not subject to rising damp or permanent moisture. Broadcast sand is not required.

## LIMITATIONS

Tiling can commence after 24 hours cure of ARDEX WPM 368 although should not exceed a maximum of five days. Installer is to ensure that there is no surface contamination or membrane puncture during this period. If left exposed for longer than five days or contamination has occurred, clean with a damp cloth and apply another coat of ARDEX WPM 368. The product should be applied whilst the surface temperature is between 10–35°C. The product will cease to cure below 10°C. Curing time will also be adversely affected in situations where relative humidity is >85%.

ARDEX WPM 368 is not classified as a trafficable or UV stable membrane. It is not suited for potable water applications.

## COVERAGE

One coat of ARDEX WPM 368 is required to reduce efflorescence or as a moisture resistant coating over green concrete. The coverage rate should be 3m<sup>2</sup>/L, or a WFT of 0.3mm per coat. In areas that are affected by hydrostatic pressure, two coats are applied at 3m<sup>2</sup>/L or a WFT of 0.3mm per coat. In the event that this coverage rate is not achieved in 2 coats, further coats should be applied to achieve a uniform coverage rate of 3m<sup>2</sup>/L. Recoat time is 2–4 hours depending on ambient temperatures.

## DRYING TIME

Allow ARDEX WPM 368 to cure for 24 hours before applying adhesives, mortars, decorative coatings or other surface treatments. Care is necessary to ensure the waterproofing membrane is not damaged during subsequent treatments.

## PACKAGING/SHELF LIFE

ARDEX WPM 368 comes in 20kg pail. Shelf life is 12 months when stored in the original unopened packaging, in a dry place at 23°C. Do not store in direct sunlight. Replace lid tightly after use. Use remaining contents from part used containers within one month.

## SAFETY PRECAUTIONS

Wear gloves when working, If the product enters the eyes, wash with clean water for at least 15 minutes and seek medical advice. If swallowed do not induce vomiting, give glass of water and contact a doctor. ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

## THINNING AND CLEAN UP

Wash all equipment in water or water/detergent immediately on completion.

## TECHNICAL PERFORMANCE DATA

<b>Colour</b>	Grey
<b>Finish</b>	Semi-gloss going to matt with aging
<b>Volume solids</b>	50%
<b>Coverage</b>	Must be applied at a rate of 3m <sup>2</sup> /L, or a WFT of 0.3mm per coat to achieve an effective waterproofing membrane (two coats total)
<b>W.F.T.</b>	300 micrometers (0.3mm) per coat
<b>Recoat time</b>	2–4 hours @ 25°C and 50% R.H.
<b>Full cure</b>	7 days @ 25°C and 50% R.H.

## GUARANTEE

ARDEX Australia Pty Ltd (“we” or “us”) guarantees this product (“our goods”) is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee.

This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: [technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com)) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a “consumer” under the Australian Consumer Law and to that extent you need to be aware that: “Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure”.

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# ARDEX WPM 163

## Sheltercoat DPM 163 Penetrative Sealer

### Single Component Polyurethane Dispersion Sealer

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#### PRODUCT DESCRIPTION

Ardex WPM 163 (Sheltercoat DPM 163) is a one component water based urethane modified acrylic water resistant protective sealer that penetrates and cures within the pores of the surface being sealed. Ardex WPM 163 is semi permeable allowing the surface to breathe and is not a waterproof membrane that will resist ponding water.

#### FEATURES/BENEFITS

- Interior or exterior use.
- Used as an Incontinence barrier for concrete floors in health care institutions.
- Water white and is stable to ultra violet exposure.
- Requires only short downtime for application. Four coats can be applied within the same day allowing light trafficking within 24 hours.
- Penetrates and cures within the pores of the surface being sealed to provide extended service life.
- Provides high abrasion resistance since the wear properties are dependent on the base substrate.
- Can be recoated at any time.
- Good flexibility properties to withstand substrate expansion and contraction.
- Non-flammable and very low odour.
- Surface tolerant and flexible.

#### TYPICAL USES

- As an economical single component sealer and dust suppressant for warehouse and showroom concrete floors to suppress dust formation and dirt collection with minimum down-time.
- As a water resistant sealer for external concrete or masonry walls to prevent water ingress while allowing the substrate to breathe to prevent internal surface condensation.
- As a grease and oil resistant sealer for concrete and masonry paths, paved areas, pool surrounds, etc.
- As an easily applied water resisting sealer for concrete, roof tiles, brick, stone, slate and masonry to inhibit water penetration
- As a protective sealer for sandstone to minimize dirt and atmospheric grime to develop while allowing the sandstone to breathe.
- As a sealer for timber wall paneling.

#### LIMITATIONS

The product should be applied whilst the surface temperature is between 10- 35°C. Drying time is adversely affected by low temperature and in situations where relative humidity is >85%.

Apply only using multiple thin film application.

Do not apply if rain is imminent.

DO not leave containers open for long period of time.

NOTE: Sealing a surface will decrease slip resistance in wet conditions.

#### SURFACE PREPARATION

All surfaces must be cleaned free from dust, dirt, grease, oil, previous surface coatings or adhesive and other surface contaminants.

Ardex WPM 163 is a clear sealer and any contamination, surface texture irregularities, or stains existing at the time of coating will be evident, and probably emphasised, in the final finish.

#### APPLICATION

Thoroughly mix the product before use. Ardex WPM 163 may be applied by brush, roller or low volume spray application techniques and should be applied in multiple thin films only to allow for maximum penetration allowing 30 minutes to 1 hour at 25°C between coats.

Care should be taken not to apply excess material in each coat when using brush or roller. Application of excess material per coat will result in the product bridging the pores preventing penetration.

Ardex WPM 163 should preferably be applied to damp or moist substrates that are surface dry and not wet. Excess water in the substrate will hinder the penetration of the product.

The number of coats required will vary depending on the porosity of the substrate. Apply sufficient material to fill all surface pores. Two coats are normally sufficient on steel trowelled concrete while clay pavers are likely to require four coats.

Allow 24 hours curing before subjecting to light pedestrian traffic, three days for rubber wheeled traffic, seven days for full cure and maximum traffic loading.

#### CLEANING & THINNING

Ardex WPM 163 normally does not require thinning for application. For very fine grained substrates, thin with up to 10% of fresh clean water.

Wash all equipment in warm water or water/detergent immediately on completion of the work.

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## TECHNICAL DATA

Colour	Clear/water white
Finish	Semi-gloss going to mat with external exposure aging
Typical coverage	15m <sup>2</sup> /ltr per coat depending on the porosity of the substrate
Typical no. of coats	2-4 depending on the substrate porosity & surface finish desired
Recoat time	30 min to 1 hour @ 25°C, 50% R.H.
Full cure	7 days @ 25°C, 50% R.H.
UV Exposure	Resistant

## SAFETY PRECAUTIONS

Ardex WPM 163 is non-hazardous; non-dangerous goods.

Avoid contact with skin and eyes and avoid breathing vapour or spray mist. Wear eye protection and protective gloves when mixing and using.

## FIRST AID

If poisoning occurs, contact a doctor or the Poisons Information Centre. If swallowed, do NOT induce vomiting. Give a glass of water. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.