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# ARDEX WPM 812 SL

## **Single part, moisture cured, self-levelling polyurethane membrane**

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One part - ready to use - easy application

Tough - with the ability to increase impact and wear resistance by adding an ARDEX top coat

Low viscosity, self-levelling

Labour saving, can be applied in a single application

High permanent flexibility

Excellent adhesion to a wide range of substrates

Quick access for trades

No tar or bitumen modification

No bleed through

Non-flammable and low VOC

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# ARDEX WPM 812 SL

## Single part, moisture cured, self-levelling polyurethane membrane

### PRODUCT DESCRIPTION

ARDEX WPM 812 SL is a single-component, low viscosity, self-levelling, liquid polyurethane which cures to form a tough and permanently flexible waterproof membrane.

### FEATURES

- One part - ready to use - easy application
- Tough - with the ability to increase impact and wear resistance by adding an ARDEX top coat
- Low viscosity, self-levelling
- Labour saving, can be applied in a single application
- High permanent flexibility
- Excellent adhesion to a wide range of substrates
- Quick access for trades
- No tar or bitumen modification
- No bleed through
- Non-flammable and low VOC

### TYPICAL APPLICATIONS

- Roof and Decks
- Waterproofing external balconies, roof and deck areas, podium levels, wet area floors prior to the application of a suitable UV-stable top coat such as ARDEX WPM 821 or WPM 822 or pavers on paving support pads
- Planter box interiors, general tanking and below grade waterproofing

### APPLICATION

#### Surface preparation

Surface must be structurally sound, clean, dry and free from curing agents, oil, grease and any other contaminants. Concrete should be cured for 28 days and have a maximum of 5% moisture content. Repair defective concrete and patch uneven or low areas that may hold water with an appropriate ARDEX Patch Repair Mortar. Seal all joints, cracks and gaps and form angle fillets to internal corners and penetrations with an appropriate ARDEX Sealant or Crack Repair product.

#### Priming

Prime surfaces with ARDEX WPM 801 Primer applied at a rate of 6-10m<sup>2</sup>/L dependent upon surface porosity.

Damp areas, substrates subject to rising damp and concrete less than 28 days old shall be primed with ARDEX WPM 300 (HydrEpoxy 300) at a coverage rate of not more than 3m<sup>2</sup>/L.

ARDEX WPM 801 Primer must be over-coated within a period of 24 hours, whereas ARDEX WPM 300 can be

allowed longer exposure but must be fully cured and totally dry prior to application of the membrane. ARDEX WPM 812 SL shall be applied within 4 days of priming with ARDEX WPM 300.

### Detailing

After priming, apply a 25mm fillet of ARDEX RA 040 Polyurethane Based Joint Sealant between all horizontal and vertical junctions such as floor to wall, and all hob junctions, seal joints and detail around pipe/column penetrations. Around rain water and floor waste outlets, apply membrane to achieve an overall dry film thickness of 1.5mm and turn up to penetrations and down into waste outlets. Reinforce where necessary with ARDEX Deckweb. To joints in sheet flooring, tape and bandage over the mastic-filled joint. Cut out cracks in concrete to 6mm minimum width by 3mm minimum depth and fill with an appropriate ARDEX Sealant or Crack Repair product.

### APPLICATION

To the prepared surface, apply ARDEX WPM 812 SL by notched squeegee, brush, roller or trowel in one or more coats at a total rate of 0.8m<sup>2</sup>/L. In the event this coverage cannot be achieved in one coat a second coat must be applied within a maximum of 24 hours to ensure intercoat bond. Turn membrane up at walls and penetrations and down into drainage outlets. When dry, check for pinholes or misses and rectify if necessary. Allow 12 - 24 hours to dry before covering. If membrane becomes dirty between coats, clean with xylene to ensure adhesion.

### COVERAGE

A 15 litre drum of WPM 812 SL will cover an area of approximately 12m<sup>2</sup>. Apply in one or two coats at a combined rate of 0.8m<sup>2</sup>/L. Ensure a dry film thickness of the cured membrane is at least 1.25mm.

### PACKAGING

ARDEX WPM 812 SL is supplied in a 20kg/15 litre metal can.

### CLEAN UP

Use solvent or methylated spirits before curing. Exercise care when using solvents and review all SDS before use.

### SHELF LIFE

ARDEX WPM 812 SL has a shelf life of 6 months when stored in the original, unopened packaging in a dry place at 23°C and 50% relative humidity but once opened, may become solid.

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### TOPCOATING

For exterior use ARDEX WPM 812 SL needs to be protected against UV degradation and should be overcoated with either of the following UV resistant surface finishes: ARDEX WPM 821 for non trafficable situations, or ARDEX WPM 822 for light trafficable situations (pedestrian traffic only). Apply once ARDEX WPM 812 SL is touch dry. To ensure intercoat adhesion, over-coating needs to be applied within 24 hours after installation of the membrane. For slip resistance purposes particularly in wet conditions it is recommended that ARDEX WPM 822 be used in preference to ARDEX WPM 821.

### ARDEX WPM 821

Allow 12 to 24 hours for the ARDEX WPM 812 SL to cure. It must be over-coated within 24 hours to ensure intercoat adhesion. Be sure the surface is clean and dry. Apply 2 coats of ARDEX WPM 821 by roller allowing 2 to 4 hours between coats, depending on weather conditions.

### Pay attention to the following:

Do not apply above 35°C or below 10°C ambient temperature. Do not cover until fully dry. Protect membrane against damage before and during backfilling or covering. ARDEX WPM 812 SL should always be protected from UV exposure. Protect membrane against the action of roots. Do not use as an undertile membrane; contact ARDEX Technical Services for alternatives.

### SAFETY DATA

This product is harmful if inhaled and may cause irritation and an allergic reaction to the skin. It causes serious eye irritation and may cause allergy or asthma symptoms or breathing difficulties if inhaled. It is suspected of causing cancer. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Store locked up. Check with your local Council regarding the disposal of contents and packaging. Keep out of the reach of children.

Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at [www.ardexaustralia.com](http://www.ardexaustralia.com)

### TECHNICAL DATA

<b>Appearance</b>	Grey viscous liquid
<b>Viscosity</b>	4000 ± 1000 cps/25°C
<b>Density</b>	1.20 approx
<b>Solid Content</b>	97 ± 2
<b>Hardness (Shore A)</b>	70 ± 10
<b>Elongation (%)</b>	> 400%
<b>Tensile Strength</b>	> 3.5 MPa
<b>Tear Strength</b>	> 2 MPa
<b>Flammability</b>	Non Flammable

### 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 of 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".

### DISCLAIMER

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