



ARDEX WPM 812 SL

Single part, moisture cured, self-levelling polyurethane membrane

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 6-10m²/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 3m²/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 1.25 litres (1.50kg) per m². 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 12m². Apply in one or two coats at a combined rate of 0.8m²/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

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become solid.

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

Classified as Hazardous, Non-dangerous goods according to criteria of Safework Australia.

Keep away from heat and flame. Use only with adequate ventilation. Avoid contact with the eyes or skin, especially open breaks in the skin. In the event of skin contact, remove excess product and wash with warm soapy water. Refer to SDS for important warnings and product information.

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TECHNICAL DATA

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

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 affect 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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