



ARDEX WPM 822

UV Stable Polyurethane Top Coat

Pedestrian trafficable top coat

Excellent UV and impact resistance

Excellent chemical resistance and durability

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PRODUCT DESCRIPTION

ARDEX WPM 822 is a fast curing, aliphatic polyurethane coating which provides excellent UV resistance, durability, and impact resistance. ARDEX WPM 822 has been designed to be applied as the protective top coat with the ARDEX WPM 812 membrane to create a solution for low to medium pedestrian trafficable environments.

FEATURES

- Pedestrian trafficable top coat
- Excellent UV and impact resistance
- Excellent chemical resistance and durability

USES

- Rooftops
- Podiums
- Walkways
- Ramps and stairs
- Plant or mechanical rooms

For other types of environments please contact ARDEX Technical Services (technicalservices@ardexaustralia.com).

APPLICATION

Before application of ARDEX WPM 822, ensure ARDEX WPM 812 is completely clean, sound, dry, cured, free from condensation, and any contaminations.

Mix each component individually with a suitable mixing paddle (500 - 600 rpm) for 2 - 3 minutes to form a homogenous state. Do not use the same mixing paddle for each component. Pour contents of Part A into Part B, then begin mixing with a suitable mixing paddle (500 - 600 rpm) for 2 - 3 minutes to form a homogenous state.

Apply ARDEX WPM 822 in two coats using a brush or roller. The second coat must be applied in a cross direction to the first coat, and must be applied within 8 - 24hrs maximum (@23°C / 50% R.H.) to avoid intercoat contamination. A consistent wet edge during application must be achieved.

When ARDEX WPM 822 is applied with no aggregate, apply at 350 microns (WFT) per coat.

When ARDEX WPM 822 is applied with aggregate to create the required slip resistant finish, apply at 450 microns (WFT) per coat.

SLIP RESISTANCE APPLICATION

Whilst the first coat of ARDEX WPM 822 is wet, broadcast aggregate until refusal. After 24 hours (@23°C / 50% R.H.) remove excess aggregate, then apply second coat of ARDEX WPM 822 to encapsulate aggregate and provide protective finish.

CLASSIFICATION - AS4586:2013 Appendix A

| TEST SAMPLE | NOMINAL VALUES |
|--|----------------|
| ARDEX Primer Sand | P5 |
| Polyethylene Fibres (size 212 - 355 microns) | P4 |
| Crushed Glass (size 0.45mm - 0.68mm) | P5 |
| 16/30 Sand | P5 |

When using any of the suggested aggregates to achieve the required slip rating performance, each coat of ARDEX WPM 822 wet film thickness must be 450 microns (minimum) to ensure the aggregate is encapsulated.

ACCESSIBILITY

ARDEX WPM 822 can accept pedestrian traffic between 24 - 48 hours after final coat application (@ 23°C / 50% R.H.). Both ambient temperature and or substrate temperature will affect the drying/curing process.

LINE MARKING APPLICATION

Apply line marking between 12 - 24 hours of completing final coat application on ARDEX WPM 822. Generally, no specific surface preparation is required, however a 'test patch' to ensure manufactures adhesion requirement is recommended.

For application of line marking after 24 hours, clean surface of ARDEX WPM 822 by way of solvent wiping with Xylene and allow to fully dry prior to line marking application. Generally, no further surface preparation is required, however a 'test patch' to ensure manufactures adhesion requirement is recommended.

Please refer to the line markings manufacture guidelines and recommendations regarding application procedures.

RECTIFICATION APPLICATION

Any necessary recoating of high wear areas should be carried out in accordance with the following recommendation.

Lightly sand / abrade (80 - 120 grit) all required areas of ARDEX WPM 822 to create a mechanical key for subsequent coating application. Remove any loose or flaking material, and ensure rough edges are removed to give a uniform surface. Wash surface with clean water under a low pressure spray. Ensure to remove all water residues and contaminants, and allow to completely dry. Solvent wipe the prepared surface with Xylene and allow to dry. Apply ARDEX WPM 801 and allow to dry before applying ARDEX WPM 822 to the required wet film thickness. Allow the repaired area to fully cure before subjecting to traffic.

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CHEMICAL RESISTANCE TABLE

- Fully Resistant = Recommended for continuous exposure
- Resistant = General maintenance/housekeeping is required
- Short-term resistant = Spill must be removed within 4 hours
- Not Resistant = Not recommended with product

| CHEMICAL TYPE | CLASSIFICATION |
|--------------------------|----------------------|
| Ammonia (10%) | Resistant |
| Ammonium Carbonate) | Not Resistant |
| Ammonium Chloride | Fully Resistant |
| Brake Fluid ATE | Short-term Resistant |
| Calcium Chloride (40%) | Fully Resistant |
| Chlorine | Resistant |
| Cutting Oil | Short-term Resistant |
| Diesel Oil | Fully Resistant |
| Ethanol | Short-term Resistant |
| Ethyl Alcohol 100% | Short-term Resistant |
| Ethyl ether | Short-term Resistant |
| Glycerine | Resistant |
| Hydraulic Oil SAE90 | Short-term Resistant |
| Hydrochloric Acid | Resistant |
| Jet Fuel | Resistant |
| Kerosene | Resistant |
| Magnesium Chloride (30%) | Fully Resistant |
| Methanol (<5%) | Short-term Resistant |
| Olive Oil | Resistant |
| Paraffin | Resistant |
| Petroleum | Fully Resistant |
| Petroleum ether | Resistant |
| Phosphoric acid (50%) | Not Resistant |
| Potash lye (10%) | Resistant |
| Potassium nitrate | Fully Resistant |
| Sea water | Resistant |
| Sodium chloride (10%) | Fully Resistant |
| Sulphuric acid (30%) | Short term resistant |

Please note this chemical resistant table is a guide only. Many factors such as the time before it is in full service, the service temperature, and the degree of traffic may impact a recommendation. The chemicals in the table are in concentrated form unless otherwise stipulated. A service

temperature of 23°C / 50% R.H is assumed for this data. When considering a certain application please contact ARDEX Technical Services (technicalservices@ardexaustralia.com).

TECHNICAL DATA

| CHARACTERISTICS | TEST METHOD | NOMINAL VALUES |
|--|-------------|-----------------------------------|
| Colour | | Koala Grey |
| Pot Life (23°C / 50% R.H.) | | 30 - 40 mins |
| Solids Content | | >45% |
| Shore Hardness A | | 60 |
| Accelerated Heat Resistance (4 days @ 140°C) | | No surface change/ discolouration |
| Elongation | AS1145 | 350% |
| Tensile Strength | AS1145 | 2 MPa |
| Service Temperature | | -10°C - 70°C |

COVERAGE

60m² per 18kg kit (0.3kg per m²) - at 0.3mm total DFT.

45m² per 18kg kit (0.4kg per m²) - at 0.4mm total DFT.

Coverage rate may vary depending on application technique.

PACKAGING

Part A - 2kg can

Part B - 16kg pail

CLEAN UP

Clean all equipment with solvent prior to the product drying. Once product has been allowed to cure, removal may require mechanical methods.

SHELF LIFE

ARDEX WPM 822 has a shelf life of 12 months when stored in the original, unopened packaging in a dry place at 23°C and 50% R.H.

LIMITATIONS

Do not apply ARDEX WPM 822 if ambient temperature and or substrate temperature is below 10°C or above 35°C. Inaccurate mixing of Part A and Part B may cause discolouration in final appearance. Do not add solvent to product. Do not apply if rain is imminent. Exceeding the recommended application timeframe between coats greatly increases the risk of adhesion issues and achieving a uniform protective coating.

Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (personal protective equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

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SAFETY DATA

Part A Component

Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May damage fertility. May damage the unborn child. May cause respiratory irritation. Toxic to aquatic life. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing mist/vapours/spray. Use only outdoors or in a well-ventilated area. Store locked up. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. Additional information is in the Safety Data Sheet (SDS) at www.ardexaustralia.com

Part B Component

Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Store locked up. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. Additional information is in the Safety Data Sheet (SDS) at www.ardexaustralia.com

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, 2 Buda Way Kemps Creek NSW 2178; Toll Free: 1800 224 070; Email: 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".

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 Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. 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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