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# ARDEX WPM 823

## UV Stable Heavy Duty Top Coat

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Vehicular trafficable top coat

Excellent UV stability and impact resistance

Excellent chemical resistance and durability

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# ARDEX WPM 823

## UV Stable Heavy Duty Top Coat

### PRODUCT DESCRIPTION

ARDEX WPM 823 is a fast curing top coat designed to be applied onto ARDEX WPM 813 to create a hard wearing solution for vehicular / heavy trafficable environments.

### FEATURES

- Vehicular trafficable top coat
- Excellent UV stability and impact resistance
- Excellent chemical resistance and durability

### USES

- Stadiums
- Factory floors
- Loading docks
- Plant or mechanical rooms
- Car Park Decks & Wash Bays

Not suitable for environments with forklift and/or steel wheel traffic. For other types of environments please contact ARDEX Technical Services ([technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com)).

### APPLICATION

Before application of ARDEX WPM 823, ensure ARDEX WPM 813 is completely clean, sound, dry, cured, free from condensation, and any contaminations.

Mix Part B component individually for 2 - 3 minutes with a suitable mixing paddle (500 - 600 rpm), then slowly pour Part A component into Part B, and continue to mix for 2 - 3 minutes to form a homogenous state.

Apply ARDEX WPM 823 in two coats using a brush or roller at 250 microns (WFT) per coat. 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.

### SLIP RESISTANCE APPLICATION

Whilst the first coat of ARDEX WPM 823 is wet, broadcast aggregate until refusal. After 24 hours (@23°C / 50% R.H.) remove excess aggregate, then apply second coat of ARDEX WPM 823 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
ARDEX WPM 813/WPM 823 (no aggregate)	P3

### CURING

ENVIRONMENT	ACCESSIBILITY
Car Park (general areas)	Allow 24 - 48 hrs (foot traffic) Allow 5 days (vehicle traffic)
Car Park (high wearing areas)	Allow 5 days
Car wash bay	Allow 5 days
Loading docks	Allow 5 days
Helipads	Allow 5 days

The suggested timeframes for accessibility are based on ambient temperature @ 23°C/50% R.H after final coat completion. Allow longer timeframe within colder conditions.

### LINE MARKING APPLICATION

Apply line marking between 12 - 24 hours of completing final coat application on ARDEX WPM 823. 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 823 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 823 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, allow to dry, and apply ARDEX WPM 801 and allow to dry before applying ARDEX WPM 823 to the required wet film thickness. Allow the repaired area to fully cure before subjecting to traffic.

### COVERAGE

Approx. 30m<sup>2</sup> per 18kg kit (0.3kg per m<sup>2</sup>).

0.3mm total DFT (2 coats).

Coverage rate may vary depending on application technique.

### PACKAGING

18kg kit

Part A - 3.6kg can

Part B - 14.4kg pail

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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 product is in full service, 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 is assumed for this data. When considering certain applications please contact ARDEX Technical Services (technicalservices@ardexaustralia.com).

### TECHNICAL DATA

CHARACTERISTICS	TEST METHOD	NOMINAL VALUES
Appearance		Blue Grey
Pot Life (23°C / 50% R.H.)		1 - 2 hours
Solids Content		60% ±3
Shore Hardness A		80
Accelerated Heat Resistance (4 days @ 140°C)		No surface change/ discolouration
Tensile Strength		2.0 MPa
Service Temperature		-10°C - 70°C

### CLEAN UP

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

### STORAGE

Packaging must be stored vertically, out of direct sunlight, away from sources of puncture and physical damage. Store in a dry place at 23°C and 50% R.H.

### SHELF LIFE

ARDEX WPM 823 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 823 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.

### 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 irritation. May cause an allergic skin

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reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May be fatal if swallowed and enters airways. Harmful 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. Wear protective gloves/protective clothing/eye protection/face protection. 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](http://www.ardexaustralia.com)

### Part B Component

Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. 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](http://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 Kemp Creek NSW 2178; 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

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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