



ARDEX WPM 813

High hardness, chemical resistant seamless floor coating

Good resistance to wheeled traffic

Resistance to acids, alkalis, grease and other industrial chemicals

Environmentally friendly, no solvent or amine is used

High build finishes can be applied in a single application

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DESCRIPTION

ARDEX WPM 813 is a monolithic system recommended for use in factories, store houses, parking decks, offices and laboratories, etc.

FEATURES

- Good resistance to wheeled traffic
- Resistance to acids, alkalis, grease and other industrial chemicals
- Environmentally friendly, no solvent or amine is used
- High build finishes; can be applied in a single application
- Excellent chemical and mechanical properties

TYPICAL APPLICATIONS

- Factory floors
- Store houses
- Parking decks
- Offices and laboratories

APPLICATION

Substrate preparation

Before any flooring work is started, the applicator shall thoroughly examine all surfaces for any deficiencies. Should any deficiencies exist, the specifier, owner or general contractor shall be notified in writing and corrections made. The substrate must be clean, sound and free from all grease, oil, dust and other surface contaminants. All cracks 1.5mm in width shall be treated with an appropriate ARDEX Crack Repair product such as ARDEX RA 56. All joints, internal corners and penetrations are to be filled using an approved ARDEX Sealant such as ARDEX RA 040.

Priming

Prime surfaces with ARDEX WPM 801 Primer applied at a rate of 6-10m²/L, dependent upon surface porosity. Damp areas, substrate 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 12 hours, whereas ARDEX WPM 300 can be allowed longer exposure but must be fully cured and totally dry prior to application of the membrane.

Mixing

Mix Part A (resin) and Part B (hardener) with a ratio of 1 : 1 by weight. Mix the two components using a low speed

mechanical stirrer (e.g. electric drill) until a uniform mixture is obtained. Maintain mixing paddle head below surface of liquid to reduce entrapped air. To ensure accurate mixing, it is recommended to use the entire kit. The mixed viscosity is suitable for application so no solvent is required.

Application

Apply the ARDEX WPM 813 in one coat by notched trowel, brush or roller to achieve an overall dry film thickness of 2-5mm depending on the type of application. Should a subsequent coat be required, it must be applied within 24 hours of the preceding coat.

For high-traffic areas, to ensure optimal bond with the top coat, it is recommended to apply non-slip media such as kiln dried sand or aluminium oxide, to the membrane. This should occur in a second coat.

Do not use mixed product once it has become thick and stringy, it must be discarded. Do not add solvent.

COVERAGE

1.2kg per square metre to obtain an average dry film thickness (DFT) of 1mm. Application thickness will vary according to requirement; for example:

Store houses, offices and laboratories – 2mm DFT

Parking Deck – 3-5mm DFT

Application rates will vary in accordance with the degree of shock and impact resistance required. As an example, installations requiring a dry film thickness between 2-3mm require 2.7- 4.0 kg per m².

A typical heavy-duty factory floor will demand a DFT of 3-5mm.

Should a top coat be required allow a minimum of 12 hours to a maximum of 24 hours before applying the next coat. Do NOT add solvent.

PACKAGING

36kg kit (18kg Part A & 18kg Part B)

SHELF LIFE

ARDEX WPM 813 has a shelf life of 12 months when stored in the original, unopened packaging in a dry place at 23°C and 50% relative humidity.

STORAGE

Product should always be stored in a place that is dry and sheltered from the elements. Even during installation,

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avoid leaving product exposed to temperatures below 10°C and above 30°C.

Pay attention to the following:

When used in combination with other PU based coatings, such as ARDEX WPM 823, there is typically a 24-hour window to ensure maximum adhesive bond. When used as a base membrane of a multi-layer system, the following coat should be applied as soon as the primary coat is dry enough to take foot traffic. Do not apply non-slip media into the first coat of the membrane as this could compromise the waterproofing performance. Preferred application temperature range is between 10°C and 30°C.

SAFETY DATA

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. Avoid breathing mist/vapours/spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local regulations. 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

TECHNICAL DATA

Product	PART A	PART B
Appearance	Yellowish liquid	Grey liquid
Viscosity (cps 25°C)	4200 ± 50	2000-6000
Mixing Ratio (w/w)	1	1
Specific Gravity	1.2 ± 0.01	
Pot-life (min)	40 ± 20	
Tensile strength	11MPa	
Elongation (%)	350 ± 100	
Hardness (Shore A)	80 ± 5	

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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) 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. 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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