ARDEX WPM 179

Single Component Rubber Waterproofing Membrane

Quick Drying – designed for fast track installations

Chemical Resistance – for a wide range of chemicals

Water Based – safe to use, low in VOC & odour

Contains root inhibitors that repel most root growth without killing the plant

ARDEX WPM 179
Single Component Rubber Waterproofing Membrane

DESCRIPTION

ARDEX WPM 179 is a one component liquid applied, latex modified, bituminous elastomeric waterproofing membrane. When cured it forms a permanently flexible waterproof lining to most building surfaces. ARDEX WPM 179 is predominately used as a patching or repair membrane. ARDEX WPM 179 is water based, has almost no odour and is safe to use.

FEATURES/BENEFITS

- Easily applied: single pack, high build, long pot life

- Excellent adhesion to substrates

- High elongation – excellent crack bridging capabilities

- Retains flexibility at low temperatures

- Resists ponding water (once fully cured)

- Water based – environmentally friendly and safe to use

- Excellent Chemical Resistance properties

- Conforms to AS4654.2 – 2009 waterproof membranes for exterior use

ACCEPTABLE SUBSTRATES

- Concrete structures and concrete formwork.

- Cement/sand screeds/renders – cured for a min 28 days and 14 days respectively. Alternatively apply a barrier coat of ARDEX WPM 300 (HydrEpoxy 300) as a barrier coating to fresh or wet substrates.

- Masonry and concrete blocks – voids filled, sharp edges and protrusions should be removed to give a flush finish.

- Steel.

TYPICAL APPLICATIONS

- Below ground tanking, basements and retaining walls (not negative hydrostatic situations).

- Bridge decks and concrete structures.

- Planter boxes.

- Terraces/balconies (protected).

- Concrete protection from chemicals and water ingress.

- Corrosion protection of metal roofs and structures.

- Steel tanks, steel bridge decks.

- Waterproof liners for sewage and containment ponds, dams and tanks.

- Underground structures / Tunnel lining.

BASIC APPLICATION INSTRUCTIONS
Surface preparation

The surface to be coated should be clean, sound and free from oils, greases and flaking paint. New concrete should be cured for 28 days (or a barrier coat of ARDEX WPM 300 (HydrEpoxy 300) applied) prior to application of membrane and the surface pores must be open. All cracks or holes exceeding 2mm are to be repaired before application commences. Surface may be slightly damp but must be free from seeping moisture. Surface to which the coating is to be applied should be smooth with no sharp edges to ensure a uniform film thickness is achieved.

Priming

ARDEX WPM 179 is self-priming on most surfaces and a primer is therefore not necessary. Wet or freshly placed concrete surfaces should be sealed with Ardex WPM 300 (HydrEpoxy 300) in one coat at a coverage rate of 3.0 square metres per litre. Porous substrates such as aerated concrete should be primed with Ardex WPM 179 Single Component Rubber Waterproof Membrane mixed with 50% water.

Application

ARDEX WPM 179 can be applied by brush or trowel to the substrate over the entire area to be repaired or waterproofed. Allow 2-4 hours between coats for ARDEX WPM 179 unless a reinforcement material is used between coats. In this case, the second coat can be applied immediately after the mat has been installed in the first coat. The membrane is fully dry in 24 hours, after which should be protected with ARDEX protection boards or geotextile fabric coated drainage cell.

COVERAGE AND THICKNESS

As a patching/repair membrane one coat of ARDEX WPM 179 will cover approximately 15m^2 (dry film thickness of 0.6mm). If two coats are required ARDEX WPM 179 will cover approximately 7-8m^2 (dry film thickness of 1.0mm).

DETAILING OF PETRUSIONS AND EXPANSION JOINTS

ARDEX WPM 179 can be directly applied onto penetrating PVC pipes, re-bars and metal fixings providing a seamless waterproofing layer. Expansion joints and corners should be covered using ARDEX Waterproofing Detail Tape.

DRYING TIME

ARDEX WPM 179 is fully dry in 24-48 hours at 25°C and 50% relative humidity. After which it should be protected with ARDEX protection boards or geotextile coated drainage cell.

SAFETY DATA

ARDEX WPM 179 is non-hazardous and non-dangerous. Do not breathe gas/fumes/vapour/spray. Wear eye/face protection. Use only in well ventilated areas. Keep container tightly closed and in a well ventilated place. In case of contact with eyes, rinse with plenty of water. In event of irritation seek medical advice.

ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

STORAGE

ARDEX WPM 179 is sold in 15kg pails. Shelf life is 12 months when stored in the original unopened container, in a dry place at 25°C. Do not store in direct sunlight. Replace lid tightly after use.

CLEAN UP & DISPOSAL

Clean all equipment in fresh water immediately after use. Remove cured material with mineral turpentine or white spirits. Dispose of containers in compliance with all relevant local authorities, state, and federal regulations.

TECHNICAL PERFORMANCE DATA

Appearance and odour:	Thick black fluid, slight odour
Specific gravity:	Approx 1.05kg/L
Application temperature:	10°C – 35°C

Drying Time:
  Recoat
  Hard Dry
	(@23°C, 50% RH)
	2-4 hours
	24-48 hours

Tensile Strength:	6 days @23°C, 50% RH plus 24 hrs at 70°C, 1.2MPa
Elongation at break:	6 days @23°C, 50% RH plus 24 hours at 70°C, 450%

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 effect 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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