



WPM 300

Water based epoxy membrane

DESCRIPTION

WPM 300 is a two component, high build, water based epoxy polyamide membrane/barrier coating with excellent resistant to hydrostatic pressure and good bond to damp surfaces. It is suitable for areas such as potable water tanks where a tough, hard wearing protective surface resistant to corrosion, chemical attack and bacterial growth is necessary.

WPM 300 is approved for use with potable (drinking) water, independent testing confirms conformity with the requirements of AS/NZS 4020:1999 and BS 6920:2000.

USES

- As a low water vapour transmission coating in the building and construction industries and as a barrier/seal coating over freshly laid or damp concrete.
- As waterproofing barrier on the negative side to prevent water seepage or dampness penetration through to the interior of walls and floors.
- As a waterproofing membrane or barrier coating over freshly laid hardened (green) concrete, prior to the application of conventional levelling compounds, carpet and tile adhesives.
- As a waterproofing membrane in tanking applications, including potable water containment.
- As a sealer for fresh screeds and renders (less than 7 days) prior to tiling applications.

FEATURES

- Excellent adhesion to damp surfaces and freshly laid green concrete.
- Water resistant: prevents rising damp and efflorescence.
- When applied directly to the substrate the cured membrane will withstand hydrostatic pressure of 25 metre head of water.
- When used wet on wet over WPM 200 the cured membrane will withstand hydrostatic pressure of 40 metre head of water.
- Non-flammable and negligible odour: safe to use in sensitive locations.
- Can be overcoated using almost any decorative or industrial finishing paint.
- Conforms to requirements of CFTRI and international standards (AS/NZS 4020:1999 and BS 6920:2000) for use in contact with potable water.

PHYSICAL PROPERTIES

WPM 300	@ 27 ± 1°C
Colour	Grey/White
Finish	Semi-gloss and goes to matt on aging
Volume solids	44%

Mixing ratio	1:1 (Part A / Part B) by volume
Pot life	2 hours @ 25°C 1 hour @ 35°C
Drying Times	
Recoat time	4 hours @ 25°C & 50% R.H.
Full cure	7 days @ 25°C & 50% R.H.
VOC content	26g/l

COVERAGE ESTIMATES

Pack Size	Coverage
20 litres	approx. 1.5m ² /ltr in 2 coats
Part A 10 litres	@ 600 microns WFT
Part B 10 litres	

APPLICATION INSTRUCTIONS

Surface Preparation

All surfaces to be treated must be structurally sound; and existing coatings, adhesives, efflorescence should be removed to achieve maximum bond strength and resistance to hydrostatic pressure. Surfaces must be cleaned free of dirt, grease, oil, or other surface contaminants.

Surface irregularities must be ground down or filled out with ARDEX ENDURA range of repair materials.

Mixing

The individual contents of WPM 300 should be thoroughly stirred before being mixed together. Take Part A and Part B in equal volumes and pour into a large mixing vessel. Mix thoroughly with a spiral mixing paddle in a slow speed drill until a consistent homogenous mix is achieved. Only mix as much as may be used within the pot life of the product and avoid excessive aeration during mixing.

Application

When the product is to be applied to dry concrete it is advisable to wet the surface with a fine mist of water before application and allow to just surface dry.

Spread the material using a squeegee, roller or brush taking care to achieve required coverage. A minimum of one coat for efflorescence and rising damp, two coats for waterproofing and waterproofing negative side walls is recommended.

Note: When WPM 300 is used as a waterproof coating on existing surfaces, it is recommended to be used with WPM 200 as primer.

Allow to cure for 24 hours before applying water based adhesives, mortars, levelling compounds, decorative coatings or other surface treatments.

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CLEANING

WPM 300 can be removed from tools and equipment by using clean water immediately after use.

STORAGE AND SHELF LIFE

WPM 300 has a shelf life of 12 months if kept in a dry, clean store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any product components should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.



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