

WPM 810

Elastomeric, single component, polyurethane based cold liquid applied waterproofing membrane

DESCRIPTION

WPM 810 is a single component; high performance PU based cold applied elastomeric waterproofing membrane. WPM 810 exhibits high elasticity, excellent bond and low water permeability and makes it ideal for a wide range of waterproofing applications. The cured membrane forms an elastic, seamless, waterproof coating with good crack-bridging properties.

USES

- Waterproofing of podiums, suspended floors, planter boxes, terraces
- Waterproofing of underground structures such as foundations, retaining walls of basements, tunnels, water retaining structures (not potable water), effluent treatment tanks
- Waterproofing of car decks, bridges and inverted roofs.

FEATURES

- Non Toxic: eco friendly coating
- Seamless cold-applied membrane: eliminates lapping, seaming, and pre-cutting
- Highly flexible: can accommodate movements and vibrations
- Outstanding barrier properties: ensures protection against corrosive soil conditions
- Thermally stable: irreversible chemical cure, eliminates melting and flow at high temperature
- Excellent adhesion to concrete substrates
- Excellent resistance to oxidation
- Good chemical resistance to most weak acids and alkali, water borne salts and sea water

PHYSICAL PROPERTIES

WPM 810	@ 27 ± 1°C
Appearance	Viscous becomes black after drying
Viscosity	max. 75 Poise
Drying Time	45 - 50 mins depending upon temp/humidity
Specific gravity IS 101/1964	1.60 ± 0.1
Solid Content IS 101/1964	80 %
Elongation ASTM D 412	> 500 %
Crack Bridging	2 mm
Tensile Strength ASTM D 412	1 to 1.5 N/mm ²
Water Vapour transmission for 1.33 mm film	9.7 g/m ² /24 hrs

Water Absorption	Nil at 1mm thickness
Permeability ASTM E 96	Passes test
Recovery after 100 % elongation ASTM D 412	> 85%
Shore A hardness ASTM D 2240	> 60
Flash Point	45°C to 60°C
Service Temperature	-10°C to +45°C

COVERAGE ESTIMATES

Pack Size	Coverage
20 kg	approx. 18m ² @ 1mm

APPLICATION INSTRUCTIONS

Surface Preparation

The surface to be treated must be dry, clean, structurally sound, free from oil, grease, wax, polish, laitance, dust and other barrier materials.

Crack treatment

All shrinkage and visible surface cracks should be pre treated with ACF 8 (acrylic crack filler paste) extending 25mm on either side of the crack. Allow to cure overnight before application of WPM 810.

Priming

Priming is not normally required on good quality concrete substrates. However, absorbent surfaces such as porous concrete, sand/cement screeds and cement boards will require sealing of the surface. Prime the surface using a 1:1 mixture of WPM 810 & water.

Application

The entire contents of the WPM 810 should be stirred before starting the application. Pre-treat all turnings, construction joints and pipe cut-outs with 2 coats of WPM 810 reinforced with a layer of 50 gsm geo textile membrane with 50mm overlap in both directions. Using a roller or brush, apply a coat of WPM 810 on the prepared substrate. Allow the layer to dry before applying the second coat of WPM 810. The second coat should be applied perpendicular to the direction of application of the first layer.

Curing & Protection

WPM 810 must be cured for a minimum of 24 hours before placing protection. Where damage to the membrane is possible (by traffic, backfilling, etc.) it should be protected by a cementitious screed or protection boards. A dust coat of cement should be used to prevent adhesion of the membrane to the boards. Where a bond with the topping is not required, a separator sheet should be used.

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CLEANING

WPM 810 can be removed from tools and equipment by using RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

WPM 810 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 the product 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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