

WPM 004 Flex

High Performance Flexible Acrylic Reinforced Cementitious Waterproofing Membrane



DESCRIPTION

WPM 004 Flex is a two component, cementitious waterproofing compound designed for use in areas where substrates are subjected to movement and crack bridging properties are desired. It has been formulated with advanced acrylic polymer technology to increase its flexibility and water resistance.

STANDARDS

Conforms to the Global Migration Standards laid down in 21 CFTRI 175 - 300 (April 1, 2019) of US - FDA for intended use for contact with aqueous food products.

USES

- Fibre Cement Board, Plasterboard, Plywood, Particle Board (marine grade)
- Swimming Pools (Suspended and Below Ground)
- Wet areas & commercial kitchens
- Terraces and Balconies
- Water tanks
- Retaining walls

FEATURES

- Flexible: accommodates normal building movements and hairline cracks
- Resists both positive and negative pressure
- UV stable: Can be left exposed
- Meets class II category for AS4858 Wet Area Membranes
- No re-emulsification observed after ponding test
- Easy to apply: By brush, roller or spray
- Water based: safe to use, low odour & easy cleaning
- Excellent bond to concrete, masonry, ceramics and most common substrates*
- Self-primed: No additional primer required
- Nontoxic: Can be safely used as internal waterproofing of potable water tanks
- Allows water vapour to escape from the substrate.

*Necessary mechanical surface preparation is required

PHYSICAL PROPERTIES

WPM 004 Flex	@ 27 ± 1°C
Appearance	Grey colour, Homogeneous, with brushable consistency
Mixed material density	1.60 g/cc
Pot life	3 hours
Re-coat time	2 - 3 hours
Elongation @14days (ASTM D 412)	≥200%
Adhesion to Concrete (ASTM D 4541)	>1.20 N/mm ²
Crack Bridging Capability upto 2mm (ASTM C836)	Pass
No Crack after 10 Cycle of stretching and closing at 1mm width (ASTM C836)	Pass

Water Vapour Transmission (ASTM E 96)	1.12g /m ² /24hrs
Tensile Strength ASTM D412	≥1.5 N/mm @14 days
VOC Content	24 g/L

COVERAGE ESTIMATES

Coverage

Approx. 24 m² /in two coats.

Pack size

10 kg (Powder 5.8 kg /Liquid 4.2 kg)

45 kg (Powder 26 kg /Liquid 19 kg)

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. All vertical bore packing shall be treated using B 30 (non-shrink cementitious structural grout) and all horizontal bore packing shall be treated using polymer modified mortar admixed with E 135.

Covings, if required, shall be installed using polymer modified mortar admixed with E 135 (SBR, multipurpose concentrated liquid polymer additive and bonding agent). Alternatively, on non-sunken floors WPT 312 coving bandage can be used to avoid thick covings.

Mixing

The liquid should be thoroughly stirred and poured in a suitable mixing vessel. Slowly add the powder and mix with spiral mixing paddle in a slow speed drill. Continue until a consistent homogenous mix is achieved.

Application

Saturate the surface with clean water. Whilst wet, but free of standing water. Using a suitable brush or roller, apply the first coat of WPM 004 Flex and allow it to dry before applying second coat (generally between 2-3 hours @ 27°C/75 RH) in the opposite direction. Allow the membrane to dry completely before tiling or subsequent finishes.

Note: In case of application in wet areas as showers, pond test should be carried out only after the membrane is fully cured. Normally full curing of WPM 004 Flex membranes will take 3 days @ 27°C.

Application Thickness Per Coat	Approx. 0.6mm
Coat Consumption (min 2 Coats)	Approx. 24 m ²
Consumption of 2 Coats (kg/m ²)	Approx. 1.7 kg (depending on substrate condition)

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CLEANING

Wash hands, brushes, rollers, etc with water while the material is still fresh. Remove cured material mechanically.

STORAGE AND SHELF LIFE

WPM 004 Flex 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. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

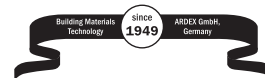
Spillage of any of the product components should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

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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