



MEGALASTIC SUPER 540

Premium grade Cementitious Elastomeric Waterproof Coating

Product Description

Megalastic Super 540 is a two component (acrylic/ cementitious) flexible waterproof protective coating for concrete and masonry substrate.

Megalastic Super 540 is an elastomeric ready to use two parts system, which waterproofs and protects concrete and similar structures.

Specially formulated product to wide range applications; swimming pools, potable water tanks, retaining walls, stones/marbles, bridge decks, bathrooms, permanent wet areas and wide variety of extreme service class structures.

Uses

Megalastic Super 540 can be applied to new or old concrete structures that are structurally sound

- Swimming pools Internal Waterproof coating
- Marble/Stone base waterproof coating
- Concrete roof slabs, wet areas, floor slabs of balcony.
- Bathrooms, Toilets and Potable water tanks
- Bridge decks, canals and water treatment plants.
- Structural surfaces of dykes, and dam walls
- Internal surfaces of sumps, reservoirs & planter boxes

Advantages

- Provides a flexible low permeability surface.
- Excellent resistance to ingress of water
- Excellent weather resistant.
- Excellent adhesion to concrete, natural and artificial stone.
- Good brushable consistency (can also be sprayed).
- Non-toxic – Can be applied on drinking water containing structures

Standards

ASTM D 2240, ASTM D 4541, ASTM D 412,
ASTM E 96, DIN 1048, BS 6920-2.6:2000 +A2:2014

Technical Specifications

Megalastic super 540 is a two-part system supplied as a pre-blended powder mix and a new generation of environmentally friendly acrylic emulsion specifically designed to modify cement composition.

Technical Data

Material Performance on a concrete with cement content of 325 kg/m³ and w/c ratio of 0.48

Colour	Grey / White
VOC(DCL) < 1 g/l	< 1 g/l
Toxicity	Non Toxic
Mix Density	1.9 Kg/Lit
Solid Content (Polymer)	45 %
Tensile Strength ASTM D412	>1.0 N/mm ²
Elongation ASTM D 12	>100%
Crack bridging (2 mm)	± 2 mm
Pull off adhesion (ASTM 4541)	0.89 Mpa
Water pressure (DIN 1048) Resistance to negative	Nil
Water pressure (DIN 1048)	3 bar
Permeability(mm) BS EN 12390 P8	5.0
Water Vapour transmission ASTM E 96	0.02 g/m ² /h

Potable water tank/ human consumption (BS 6920-2.6:2000 +A2:2014)

Heavy Metal - TEST	Max. allowable concentration- µg/L	Results
Aluminium (Al)	200	76.5
Antimony (Sb)	5	Not Detected
Arsenic (As)	10	Not Detected
Boron (B)	1000	9
Chromium (Cr)	50	Not detected
Iron (Fe)	200	32
Lead (Pb)	10	Not detected
Manganese (Mn)	50	5
Mercury (Hg)	1	Not detected



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Application Instructions

Surface Preparation

Proper substrate preparation is critical for performance. Surfaces should be structurally sound direct tensile strength of more than 1.5MPa, clean, and free from laitance, loose particles, oil and grease, old coatings, curing compounds or any other contaminants.

Remove oil or grease and wax contaminants by scrubbing with industrial grade detergent before mechanical preparation. Cement laitance, loose particles, curing compounds and other contaminants must be removed from the surface by suitable cleaning method such as shot-blasting or grinding followed by vacuum cleaning.

Prior to priming, use MegagROUT GP repair grout to achieve a smooth and level surface by filling holes and irregularities.

Mixing

Mechanical mixing is recommended. A slow speed (300 rpm), heavy duty electric drill with a paddle is suitable. Place Part A of the pack in a clean pail. Keeping the mixer running, add the Part B slowly. Mix for at least 3 minutes to get a lump-free homogenous mix. Allow to stand for 2-3 minutes and re-mix before application.

Placing

It is important that the area being treated is shaded from direct sun and wind to prevent rapid drying of the waterproofing coating.

Curing

It is essential that good curing practice is performed and maintained at every stage of the application process. Ensure that Megalastic Super 540 is cured properly after application by wet burlap or a cover to prevent moisture loss. Minimum 2 days curing is essential before water flooding test.

Estimating Data

The recommended coverage of Megalastic Super 540 is 1 kg/m² per coat to obtain an approximate wet film thickness of 0.8 mm (±0.08mm). Actual coverage depends upon the method of application, the texture and porosity of the surface. Therefore, material requirement is approximately 2 kg/m² for a total dry film thickness of 1mm (±0.1mm) in two coatings.

Shelf Life

Megalastic Super 540 can be kept for the period of 12 months, if stored in a cool and dry environment.

Packing

Kit	7.2 Kg	36 Kg
Powder	5.2	26
Liquid	2	10

Health & Safety

Megalastic Super 540 is alkaline and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing. Gloves, goggles and dust masks should be worn. Splashes to eyes should be washed immediately with water & seek medical advice.

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