



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 part system, which waterproofs/ weatherproofs and protects concrete and similar structures.

Specially formulated product to wide range applications; swimming pools, potable water tanks, retaining walls, submerged tunnels, stones/marbles, bridge deck, 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 / vapour barrier coating
- Concrete roof slabs, wet areas, floor slabs of balcony.
- Pile Head waterproofing
- Bathrooms, Toilets and Potable water tanks
- Bridge deck, canals and treatment plants
- Structural surfaces of dykes, and dam walls
- Waterproof coating (bottom coat) for marble, granite and other natural stones.
- Excellent weatherproof coating.

Advantages

- Provides a flexible low permeability surface.
- Excellent resistance to ingress of water
- Excellent resistant to abrasion and UV rays.
- Slip resistant & waterproof for concrete.
- Excellent adhesion to concrete, natural and artificial stone.
- Increases the strength of marble/stone.
- Excellent resistance to chloride ion diffusion and carbon dioxide

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
Bond Strength	>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

Propper 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, mold release agents, curing membranes and other contaminants must be removed from the surface by shot-blasting, grinding, or scarifying followed by vacuum cleaning.

Prior to priming use Megagrout GP repair mortars to achieve a smooth and level surface by filling holes and irregularities.

Mixing

Mechanical mixing is necessary. A slow speed (300 rpm), heavy duty electric drill with a paddle is recommended. 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 coating.

Curing

It is essential that good concreting practice is performed and maintained at every stage of the application process. Ensure that Megalastic is cured properly after application. Minimum 3 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 (0.08cm). 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 1 mm (0.1mm) in two coatings.

Shelf Life

Megalastic shelf life 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 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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