

MONNELI MANTOBRUSH

Two Component Elastomeric Cementitious Waterproofing Coating

Product Description

A two component cementitious acrylic modified waterproofing coating. It is composed of special types of cements, silica sand, reactive fillers (powder), and acrylic polymer blended with chemical additives (liquid). Once mixed, it produces a workable, easy to apply, product that can be applied with brush or spatula.

MANTOBRUSH provides a seamless, hard wearing, flexible waterproofing membrane with excellent adhesion to the surface.

Uses

MANTOBRUSH is used to:

- To protect exposed reinforced concrete structures from acid rains and chloride iron attacks
- Waterproofing for water tanks, reservoirs, roofs, marine structures
- Waterproofing and protective coating for substructure footing
- To coat channels against seawater and brackish water
- To coat the backside of marble and granite against water and pigments penetration
- Waterproofing for wet areas, balconies and terraces.

Advantages

- For interior or exterior use, old and new surfaces
- Resistant against harsh environment
- Polymer modified, therefore, reduces permeability and dusting while increasing bond, flexure, and tensile strength
- Easy to use, which reduces labour cost
- Protects against positive and negative water pressure

- Can be used on brick work, concrete, plastering MANTOBRUSH coat is flexible, and can accommodate fine cracks
- No primer required. Can be applied on both porous and non-porous surfaces with excellent adhesion
- Provides an effective coating against chloride and sulphate ions attack
- Has good resistance for wide varieties of chemicals and alkalis
- Can be applied to damp substrates
- Suitable for waterproofing indoor and outdoor floor slabs before laying tiles

Instructions for Use

Surface Preparation

Concrete must be solid, clean, free from oil, grease, dirt and paints. The surface can be prepared mechanically using sand blasting for large areas or steel brush for small areas.

Curing compounds or shuttering oils should be completely cleaned out.

Damaged concrete should be repaired with a suitable cementitious repair mortar. Pinholes should be widened, cleaned and filled.

Prior to application the surface should be soaked with clean water. Excess standing water must be removed.

Mixing

MANTOBRUSH is supplied in pre-measured quantities. Start mixing the product by adding the powder to the liquid and mix using slow speed mixer. Mix for about 2 minutes.

The mixture should be placed immediately after mixing. Mix enough material that can be applied within the pot life time.

Application

It is advised to apply MANTOBRUSH in two crossed coats of 2 mm total thickness. The second coat should be applied once the previous one has dried.

In case of using fibre glass mesh reinforcement, apply the first coat with 2mm thick. Place the reinforcing non-woven fabric on the first coat while it is still fresh. Apply the second coat within 24 hours. Apply an extra coat on corners and around rain or drain outlets.

Cleaning

Tools and equipment should be cleaned with water immediately after use.

Recommendations

- During windy or sunny days, spray water onto the surface to avoid the rapid evaporation of water
- Do not apply at a temperature below +5°C.
- Do not use on substrates with possible moving cracks
- Do not apply higher thickness to avoid possible cracks appearance
- If subsequent coatings or paintings are required, it is recommended to conduct compatibility trial test between two coatings

Consumption

1.5 kg /m² per 1 mm thick coat depending on surface conditions.

Packaging

MANTOBRUSH is supplied in a pack of 28 Kg Kit ; 20kg of component A (powder) and 8 Liter of component B (liquid).

Storage

Keep the product in dry place and its original containers. In these conditions, product shelf life will be 12 months.

Technical Data

Properties	Results
Colour	Grey, white
Density at 25°C Powder Liquid	1.4 kg/L 1.1 kg/L
Wet mix density at 25°C	1.55 kg/L
Pot life at 25°C	45 minutes
pH of mixture at 25°C	≥ 12
Elongation (ASTM D 638-99)	45%
Tensile strength (ASTM D 638-99)	1.5 N / mm ²
Bond strength (ASTM C321)	>1.5 N / mm ²
Chloride ion penetration resistance (ASTM C 1202)	Passed
Shore A hardness	85
Water penetration	Nil
Low temperature flexibility	Passed
Crack bridging Crack bridging with Fiber Mesh (ASTM C1305)	>2mm >3mm
Application temperature	+5°C to +35°C

All values are subject to 5-10 % tolerance

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment.

Avoid inhalation of vapours. In case of contact with skin, rinse with water and again wash thoroughly with soap and water.

In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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