

MonniProof 50

Two Component Elastomeric Cementitious Waterproofing Coating

Product Description

MonniProof 50 is 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.

MonniProof 50 provides a seamless, hard wearing, flexible waterproofing membrane with excellent adhesion to the surface.

Uses

- ▶ To protect exposed reinforced concrete structures from acid rains and chloride iron attacks
- ▶ Waterproofing for indoor and outdoor floor slab before laying tiles
- ▶ Waterproofing and protective coating for substructure footing
- ▶ To coat the backside of marble and granite against water and pigments penetration
- ▶ Waterproofing for wet areas, water tanks, terraces and balconies

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
- ▶ MonniProof 50 coat is flexible, and can accommodate fine cracks
- ▶ Breathable coating which allows substrate to breathe
- ▶ No Primer required. Can be applied on both porous and non-porous surfaces with excellent adhesion
- ▶ Elastomeric, can bridge cracks up to 1.0 mm
- ▶ Provides an effective coating against chloride and sulphate ions attack
- ▶ Has good resistance for wide varieties of chemicals and alkalis

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

MonniProof 50 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 3 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 MonniProof 50 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.

Technical Data

Category	Typical Values
Appearance	Liquid
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%
Compressive Strength	> 13 N / mm ²
Flexural Strength	> 6.5 N / mm ²
Tensile strength (ASTM D 638-99)	1.25 N / mm ²
Bond strength (ASTM C321)	0.8 - 1.0 N / mm ²
Chloride resistance (ASTM C 1202)	Passed
Water penetration	Nil
Water absorption @ 30 minutes	0.5 g
Low Temperature Flexibility	Passed
Crack Bridging	Passed
Application temperature	+5°C to +35°C

All values are subject to 5-10% tolerance

Consumption

1.75 kg/sqm/mm thick coat depending on surface conditions.

Legal disclaimer

Monneli endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Monneli has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of TDSs are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

Packaging

MonniProof 50 is supplied in 20 Kg Kit.

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.
- ▶ it is recommended to conduct compatibility trial test between two coatings.

Shelf Life & Storage

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

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.