

MixGUARD® AC

Acrylic polymer modified two component water-proof coating

MixGUARD® AC is a two component acrylic polymer modified cementitious water proof / damp proof system based on selected liquid polymer and powder which extends an elastomeric cold applied flexible membrane after proper mixing. MixGUARD® AC is widely used for water tightness works, protection of concrete, water proofing of masonry structures, Under Screed and tiles applications

Appropriation

- General construction water and damp proofing
- Sunken slabs, kitchen slabs and other wet areas
- Moisture and damp proof lining for water retaining structures
- For water proofing of drinking water reservoirs, both interior and exterior
- To provide protection for concrete against carbonation and chloride attack
- Water proofing coating for roofs, basements and terrace
- Water proof background mortar for tiles and marble, granite, exposed surface etc

Characteristics

Good adhesion to almost all surfaces

Non toxic, so suitable for potable water

Hard wearing and seamless

Excellent water proof and flexible in nature

Resistant to positive and negative pressure

Resistant to carbon dioxide and chloride diffusion and forms an anti- carbonation film

Applicable on a day old concrete structures

Good adhesion over bitumen; make sure that the primed bitumen is sound

Breathable: Allows substrate to breath out moisture

Technical data and Properties

Standard conforms	: BS 1881 Part 5 1983 (ISAT); 476 Part 6
DIN 1048: Part 5	: 1991 / BSEN 12390-8:2000 (water permeability test)
Colour	: Grey
Maximum size of particles	: 0.3 mm
Tensile strength	: >1.70N/mm ² (ASTM D 412-92)
Flexural strength	: >6N/mm ²
Adhesion to concrete	: >1N/mm ²
Elongation	: 30%
Specific gravity	: 1.8gm / cc
Toxicity	: Non toxic
Chemical resistance	: Excellent resistance against gasoline, diesel, sodium hydroxide, CaCl ₂ , deicing salts, etc

Product management

Surface preparation: Good surface preparation practice is a key element to achieve optimum result, life and performance of any cold applied systems. Concrete and masonry substrates shall be at least 28 days old with minimum 7 days standard concrete curing practice and the moisture content less than 5%. It should be dry and free of any defects, sharp arrisses, dust, dirt, oil, grease, loose particles, curing compounds, form release agents etc. This can be achieved by wire brushing, grit blasting etc. High pressure water jetting is suitable to remove the lose particles, dirt's and funguses



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The surface to be treated should be thoroughly wet prior to application (no stagnated water). All the construction joints must be checked for its water tightness and if required inject cement slurry to tight the joint. For water tank internal application all the cold joints must be thoroughly inspected for its water tightness Extra care must be taken in all inlet and outlet penetrations and grout the gap with rich polymer modified cementitious mortar or non-shrink grout mortar MixGROUT® NS

In case of existing damaged Bitumen based membranes; the membrane sheets must be completely removed from the substrate by scarifying or by any other mechanical way including unsound primer. In case the bitumen primer coating is in sound condition MixGUARD® AC can be applied directly over it. (Refer detail method statement for further information)

Mixing: The material is supplied in two parts, and pre-measured. On-site mixing is needed. Slowly add the powder to the liquid and mix using a slow speed mixer (100-150rpm) fitted with a suitable paddle. Do not mix more materials than that can be used within 45 minutes.

The appearance of the material will be creamy consistency after mixing. Do not add water at any stage to get the material loose

Method of application: MixGUARD® AC can be applied by a brush or roller to form a water proof and flexible membrane. Apply the first coat with sufficient thickness to cover the holes, cracks etc., Fiber mesh can be placed into the first coat when still wet and prior to the second coat application to the areas where joints are coming or to reinforce to increase the tensile strength of membrane. Additional 0.500 kg/Sq m is required when reinforcing with fibre mesh. Film thickness 1mm must be achieved in two coat of application, in critical areas it is advisable to apply a third coat. Keep 4-5 hours time in between the coats. Prepare surface shall be dampen with clean water prior to the first coat application

Allow the coating to dry before placing the cement screed. Sprinkle coarse sand over the final coat in its wet condition to increase the adhesion between the cement mortar and membrane coating. The cement screed is recommended in areas subject to heavy mechanical load movements / hydrostatic pressure and provide a protective render mortar to protect the membrane while laying subsequent finishes like tiling or weathering course

Coverage

1.800 kg/Sq m in two coats to achieve 1000µDFT

Packing & Storage

MixGUARD® AC is available in 20Kg Unit

Part A (Powder): 15kg (Selected cements, graded polymer, silica and fillers)

Part B (Liquid): 5Liters (Modified acrylic copolymers)

MixGUARD® AC should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

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Health & Safety

MixGUARD® AC contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product

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Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hands- onapplication. The data sheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambiance. Climatic disparity in temperature, humidity, etc... and porosity of substrate may impinge on the values.

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