

MIXGUARD BC

Acrylic Polymer modified two component flexible water proof slurry

MIXGUARD BC is a two component acrylic polymer modified flexible water proofing system based on blended liquid polymer and wetting agents. The powder part consists of fine silica sand, cement and reactive fillers. MIXGUARD BC is widely used for water tightness work, as an intermediate water proof liner in high build systems where fibre matt or Geo fabric membranes reinforced system applications, protection of concrete or masonry structures from dampness, as a water resistant barrier on back side of marble etc. It gives excellent results in providing barrier for waterborne salts and chloride attacks.

Appropriation

General construction water and damp proofing, basements
Bathroom slabs, kitchen slabs and other wet areas
Water 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
Water proof background mortar for tiles and marble, granite 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

Technical Properties

Standard conforms: BS 1881 Part 5 1983 (ISAT); 476 Part 6)
DIN 1048: Part 5: 1991 / BSEN 12390-8:2000
Appearance: Part A – Grey powder
Part B – White liquid
Colour: Grey, white and other colour on request
Tensile strength: 1.7N/mm² (ASTM-D0419/92)
Resistance to tearing: 1.6 N/mm²
Elongation: 30%
Specific gravity: 1.8
Solid content: 85%
Touch dry: 2 hours
Full set time: 4hours@25°C
Toxicity: Non toxic
Water penetration: At 4 bars, no penetration, 2mm DFT (DIN 1048)
Chemical resistance: Strong resistance against gasoline, diesel, sodium hydroxide, CaCl₂, deicing salts, etc.

Product management

Surface preparation: The surface must be clean and free of oil, grease, dust and any other unwanted residual material. The surface to be treated should be thoroughly wet prior to application (no standing water, though). The surface to receive the water-proof coating should be at least 14 days of age and all the construction joints must be checked for its water tightness and if required inject cement slurry to tight the joint. 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 drill (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. Do not add water at any stage to get the material loose

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Method of application: MIXGUARD BC 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., Fibre reinforced 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. In critical areas it is advisable to apply a third coat. Keep 4-5 hours time in between the coats.

Coverage

General damp proofing: 1.8kg/sqm in two coats.

As an intermediate coating in high build systems 1kg/sqm

Packing & Storage

MIXGUARD BC is available in 20kg kit

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

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

MIXGUARD BC 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

Health & Safety

MIXGUARD BC 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 -on application. 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 ambience, climatic disparity in temperature, humidity, etc... and porosity of substrate may impinge on the values.

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