

MIXGUARD AC

Acrylic Polymer modified two component cementitious flexible water-proofing system



the construction chemist...

Introduction

Mixguard AC is a two component acrylic Polymer modified cementitious flexible water proofing system based on selected liquid polymer and powder. Mixguard AC is widely used for water tightness works, protection of concrete, water proofing of masonry structures, marble and other construction materials. It gives excellent results in providing barrier for waterborne salts and chloride attacks

Appropriation

General construction water and damp proofing, basements,

For swimming pools, lift holes, spill ways 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

For coating in sea water foundation protection

Water proofing coating for roofs and tunnels

Marine walkways, sea water channels, etc.

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 Data and Properties

Standard conforms	BS: 1881 Part 5 1983(ISAT); 476 Part 6; DIN 1048:Part 5 1991 (water permeability test)
Specific Gravity	1.7
Color	Grey, White and other color on request
Tensile Strength	1.7N/mm ²
Flexibility	1.5mm thick:30%
Elongation	>15%
Toxicity	Non Toxic
Water Penetration	At 7 bars, no penetration 2mm DFT (DIN 1048)
Chloride Ion Diffusivity	Zero penetration at 90 days
Chemical Resistance	Strong Resistance against gasoline, diesel, sodium hydroxide, CaCl ₂ , 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).

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 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 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., completely at a rate of 1.2-1.5kg/ m². Once the first coat is dry apply second coat in order to achieve the required thickness at an average rate of 0.8 to 1kg / m² per coat. 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. For general protection it is recommended that each coat should be a minimum thickness of 1mm.

Coverage: 2kg / m²/mm in two coats

Cleaning: All tools should be cleaned with water.

Packing & Storage

Mixguard AC is available in 20kg kit

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

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

For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers/ storage tanks. 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

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 PyChem product.

Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hand-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 and porosity of substrate may impinge on values



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