

MIXGUARD ACSuper

Acrylic Polymer modified two component Cementitious High elastomeric water-proofing system

Mixguard ACSuper is a two component acrylic Polymer modified Cementitious highly elastomeric water proofing system based on selected liquid polymer, blend of OPC, silica and modifying agents. Mixguard ACSuper when mixed together forms a hard and elastic membrane.

Mixguard AC super is specially designed to use for totally submerged conditions and where joints to be sealed like pre-cast joints and construction joints.

Appropriation

General construction water retaining structures

For swimming pools, lift holes, spill ways

Seals pre-cast joints; high elongation can accommodate pre-cast joints sealing

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

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

Pre weighed, so as to eliminate in correct mixing

Non corrosive to metal

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

Properties

Standard conforms: BS 1881 Part 5 1983 (ISAT); 476 Part 6)

DIN 1048: Part 5: 1991 (water permeability test)

Colour: Grey, white and other colour on request

Maximum size of particles: 0.64mm

Adhesion to concrete: 1.8N/mm²

Tensile strength: 2.5N/mm² (ASTM D 412-92)

Water penetration: At 5 bars, no penetration, 2mm dft (BSEN 12390 part 8:2000)

Flexibility of film, 1.5mm thick: 30%

Crack bridging ASTM C836:95: upto 2mm crack width

Elongation: >100% (ASTM D 412-92)

Specific gravity: 1.8

Toxicity: Non toxic, suitability with potable water conforms to BS 6920 Part 1: 1990

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). Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious repair mortar. Conventional concrete curing compounds should be removed before application. The exception to this is when Mixcure Ac has been used. Roofing tiles should be firmly bedded and grouted before application

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 ACSuper 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 1kg/m². Once the first coat is dry apply second coat in order to achieve the required thickness at an average rate of 0.5 to .75 kg / 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. For heavy 6-10mm depressions, honey combs etc. use less gauging liquid and mix to the desired consistency. Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried.

Curing: Curing should be done immediately after the coating has attained its final set. Ponding or the use of wet Hessian cloth is recommended

Coverage: 1.8kg / m² / coat DFT@1mm (depending up on the substrate and method of application) (ie, 12.5kg unit will cover 6.9m²@1mm DFT)

Packing & Storage

Mixguard ACSuper is available in 12.5kg kit
Part A (Powder): 7.5 kg + Part B (Liquid): 5kg

Mixguard ACSuper 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, Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

Mixguard ACSuper 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 PPE recommended for maximum safety. Reseal all containers after use. 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 datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the 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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