

# MIXGUARD AC Super

Acrylic Polymer modified two component cementitious High flexible water-proofing system



the construction chemist...

## Introduction

**Mixguard ACSuper** is a two component acrylic Polymer modified cementitious flexible water proofing system based on selected liquid polymer and powder. Mixguard ACSuper when mixed together forms a hard and elastic membrane which is widely used for water tightness works, protection of concrete, water proofing of masonry structures, marble and other construction materials from possible ingress of water and water borne chemicals.

It gives excellent results in providing barrier for waterborne salts and chloride attacks. 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 and damp proofing, basements and concrete structures  
 For swimming pools, lift holes, spill ways bathroom slabs, kitchen slabs and other wet areas  
 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  
 For coating in sea water foundation protection  
 Water proofing coating for roofs and tunnels  
 Marine walkways, sea water channels, 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  
 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

## 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	1.6
Color	Grey, White and other color on request
Tensile Strength	1.5N/mm <sup>2</sup>
Flexibility	1.5mm thick:30%
Elongation	>80%
Crack Bridging	Up to 2mm
Toxicity	Non Toxic, suitability with portable water conforms to BS6920 Part 1:1990
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 <sub>2</sub> , 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



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**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.

**Method of application:** Mixguard ACSuper can be applied by a brush or roller to form a waterproof and flexible membrane. Apply the first coat with sufficient thickness to cover the holes, cracks etc., completely at a rate of 1-1.2kg/m<sup>2</sup>. Once the first coat is dry apply second coat in order to achieve the required thickness at an average rate of 0.6-0.8 kg / m<sup>2</sup> per coat for minimum thickness of 750microns. 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:** 1.6kg/m<sup>2</sup> for 2coat for minimum thickness of 750microns

## Packing & Storage

Mixguard ACSuper is available in 12.5kg kit

Part A (Powder): 7.5 kg + Part B (Liquid): 5kg

Part A(Powder): 10Kg + Part B (liquid): 10Kg

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 Mix 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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