

# MixGUARD® ACX50

High performance water proofing systems for un-exposed areas

**MixGUARD® ACX50** is a multi-component water proofing system suitable for application in sunken slabs, podiums and similarly where ever unexposed concrete or masonry surface water proofing is required. The system is acrylic polymer based components with tough and durable membrane with high degree of water proofing and tensile property in which dry film forms a seamless durable and tough membrane. The system is reinforced with Polyester fleece which increase reasonable tensile, tear and crack bridging capacity to the cured membrane

## Appropriation

- Excellent Waterproofing system for unexposed roofs, wet areas, podiums, balcony, wash areas etc.
- Can be used as an over coating on existing cementitious and Acrylic coatings

## Characteristics

Durable and flexible  
Easy application  
Environment friendly; solvent free

## Technical Data & Properties

Standard conforms	: ASTM 836
Finished Color	: Grey
Density	: 1.8gm/cc
System Solid content	: 80% ± 2% by weight
Elongation at break	: 30% (ASTM D638)
Tensile strength	: 10N/mm <sup>2</sup> (ASTM D 412)
Adhesion to substrate	: >1.5N/mm <sup>2</sup>
Application temperature	: 10 <sup>0</sup> C to 50 <sup>0</sup> C
Touch dry	: 4 hours
Full cure	: 48 hours@25 <sup>0</sup> C

## 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%. All the substrates must be dry and

Free from dust, dirt, oil, grease and loose particles.

To obtain this surface must be thoroughly cleaned with high pressure water jetting and exposed aggregates and dead mortars removed by grinding

The substrate must be thoroughly checked for its micro / hair line cracks or debonding for its soundness. Exposed corroded reinforcement if any shall be treated with Polymer coating before plastering and Surface cracks must be cut and widen into 4mm with suitable cutting machine and filled with MixBUILD® GP

## System application methodology and consumption:

**a)**The base layer is a penetrative cum bonding primer as base primer cum sealer coat using MixPRIME® AC100 modified with water and cement at the ratio 2:1:3 (MixPRIME® AC 100 : water : cement) by volume with a slow speed mixer machine. This compound shall be applied with sufficient thickness to cover the holes/pores/cracks @ 1.000 Liter / Sq m (0.350L of MixPRIME® AC100 / Sq m). **b)**Place the saturated MixFELT P 50 with minimum 100mm overlapping (saturate the MixFELT P 50 with MixPRIME® AC 100 slurry – in the ratio of 2:1:1) on the top of the MixPRIME® AC 100 slurry coat @ 0.500 L/Sq. m including saturation and leveling coat on the top of MixFELT P 50 in the wet condition (0.250L of MixPRIME® AC100 / Sq. m) and



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allow to dry for 6 hours. Any bulging or irregularities must be cut and repair at this stage. **c)** Fourth Layer – Application of first coat with MixGUARD® AC Xtra - high performance fiber reinforced acrylic cementitious elastomeric waterproofing system at 1.000 Kg/Sq. m **md)** Fifth Layer – Application of second coat with MixGUARD® AC Xtra at 1.000 Kg/Sqm. Keep 6 hours' time gap in between each layer of application for curing and leave 100 hours prior to pond test or subsequent finishes.

Make sure that the system applied for minimum height of 300mm towards adjacent side walls and can go up to 600mm, particularly in sunken slabs it is strictly recommended to cover the side walls and extend to a height of 100mm above floor tiles level with proper corner chamfering and finishing

Note:

MixGUARD® ACX50 is a pre batched two component system; mix the powder and liquid with a slow speed mixer as directed in the TDS for a period of 2 to 3 minutes to obtain a homogeneous mix. No dilution or modification is permitted at any stage of preparation

It is recommended to lay 120 g/sm Geotextile membrane or 15mm thick protective rendering mortar over the system before pouring screed or tiling to protect from any physical damages

**Cleaning:** Clean all the tools with water after use

## Packing & Storage:

MixGUARD® ACX50 components are available in 5,10 and 20 kg packs. The components 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 will result in the reduction of shelf life

## Health & Safety:

MixGUARD® ACX50 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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