

MixGUARD® AC50

High build water proofing systems for un-exposed areas

MixGUARD® AC50 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 embedded with glass fiber to enhance the tensile, tear and crack bridging capacity of the cured film

Appropriation

- Excellent Waterproofing system for unexposed roofs, wet areas, podiums, balcony, wash areas etc. – under screed and tile applications
- 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	: 6N/mm ² (ASTM D 412)
Adhesion to substrate	: > 1.5N/mm ²
Application temperature	: 10°C to 50°C
Touch dry	: 4 hours
Full cure	: 48 hours@25°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, sharp edges etc. Removed by grinding

The substrate must be thoroughly checked for its micro / hair line cracks or de-bonding 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 slurry coat by applying 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 / Sqm (0.350L of MixPRIME® AC100 / Sqm). **b)** second layer - Lay the MixMAT GFM50/70 on the top of MixPRIME® AC100 **c)** Third Layer - Application of first coat with MixGUARD® AC acrylic polymer modified two component water proof membrane at 1.000 Kg/Sq. m **d)** Fourth Layer – Application of second coat with MixGUARD® AC 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



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Note: MixGUARD® AC 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

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 finished floor level with proper corner chamfering and finishing

It is recommended to lay 120 gsm Geotextile membrane or 15mm thick protective render 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:

MixPRIME® AC100	: 5, 10 & 20L Packs
MixGUARD® AC	: 15Kg Powder 5L Liquid
MixMAT GFM50/70	: 1x50/100M rolls

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® 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 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.

Corporate Office
PYCHEM Co. L.L.C
Post Box 23940, Sharjah
United Arab Emirates
Website:www.phychem-cc.com

Under Technical Collaboration with:
MIX UK Limited,
United Kingdom

Registered Office
S.F.No.74/2,D.No.2/196-A
Kalipalayam Road, Vellamadai
Coimbatore-641110
Tel: +91 422 2929313,
E-mail: mail@fab-cc.com
Website: fab-cc.com



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