

MixGUARD® ACXtra

Micro Fibre reinforced acrylic cementitious water-proofing membrane

MixGUARD® ACXtra is a two component micro fiber reinforced acrylic Polymer modified cementitious cold applied flexible water proofing system based on selected liquid polymer, and powder. The product is specially designed to provide maximum tensile strength to the cured membrane by reinforcing with micro PP fibers. MixGUARD® ACXtra is widely used for water tightness works, protection of concrete, water proofing of masonry structures, marble and other construction materials

MixGUARD® ACXtra is reinforced with micro polypropylene reinforcement fibre which gives a durable, crack free, shrinkage compensated membrane after application. It gives excellent results in providing barrier for waterborne salts and chloride attacks. MixGUARD® ACXtra has high resistance to the effects of long term weathering durable in all climatic conditions including moderately with UV attack

Appropriation

General construction waterproofing for;

Basements, Foundation structures, sunken utility slabs

For swimming pools, Podium decks, flat roof, terrace, car parking

Water and damp proof lining for water retaining structures

For coating in sea water foundation protection

Water proofing coating tunnels

Marine walkways, sea water channels, etc.

Pile head sealing

Characteristics

- Good adhesion to almost all surfaces
- Flexible, with thermal expansion similar to concrete
- Non toxic, so suitable for potable water
- Fibre reinforced – no additional reinforcement required
- Excellent water proof and flexible in nature
- Resistant to positive and negative pressure
- Good abrasion resistance
- Applicable on a day old concrete structures
- Resistance to fatigue, repetitive, permeability

Technical data & Properties

Standard conforms	: BS 1881 Part 5 1983 (ISAT); 476 Part 6 DIN 1048: Part 5: 1991 (water permeability test)
Colour	: Grey
Tensile strength	: 2.3N/mm ²
Flexibility of film	: 30%
Elongation	: >15%
Crack bridging	: 1mm at 2 mm thick film
Puncture resistance	: 68N
Specific gravity	: 1.8gm/cc
Adhesion to concrete	: 1.5N/mm ²
Density	: 1.8gg/cc (mixed)
Toxicity	: Non toxic
Dry time	: 2-3 hours
Water penetration	: At 5 bars, no penetration, at 2mm dft(DIN 1048)
Water vapor co eff	: >3.64 x 10 ⁻⁴ cm ² /sec

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CO ₂ diffusivity	: R>357m SC>89cm, 1 mm DFT (SC: equivalent concrete thickness)
Chloride ion diffusivity	: Zero penetration at 90 days
Chloride ion diffusion Coeff'	: 1.04×10^{-7} cm ² / sec
Oxygen diffusion Coeff'	: 2.76×10^{-6} cm ² / sec
Chemical resistance	: Strong resistance against gasoline, diesel, Sodium hydroxide, CaCl ₂ , is deicing salts, etc.

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 should be at least 14 days old with minimum 7 days standard concrete curing practice and the moisture content less than 5%. It should be dry and free of any defects, sharp arrisses, dust, dirt, oil, grease, loose particles, curing compounds, form release agents etc. This can be achieved by wire brushing, grit blasting etc. High pressure water jetting is suitable to remove the lose particles, dirt's and funguses

The surface to be treated should be thoroughly wet prior to application (no standing water, though). All the construction joints must be checked for its water tightness and if required inject cement slurry to tight the joint. For water tank internal application all the cold joints must be thoroughly inspected and filled with MixFLEX® AC for its water tightness, extra care must be taken in all inlet and outlet penetrations and grout the gap with rich polymer modified cementitious mortar or MixGROUT® NS- non shrink grout mortar

Priming: Generally priming is not recommended; However, in old and maintenance works or highly porous surfaces it is recommended to apply a base surface stabilizing coat with MixPRIME® AC100 slurry (Refer TDS for mixing and 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 mixer machine. 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® AC Xtra can be applied by a brush or roller to form a water proof and flexible membrane. Apply the first base coat @1kg/Sq m with sufficient thickness to cover the holes, cracks etc. completely. Once the first coat is dry apply second coat @1kg/Sq m and depends on the requirement of substrate where joints are coming up apply a third coat in order to achieve the required thickness at an average rate of 0.750 to 1kg/Sq m per coat. For general protection it is recommended that each coat should be a minimum thickness of 500 microns. To achieve the correct properties, MixGUARD® ACXtra must be applied on to the substrate at the coverage rates recommended in the PTDS

Protection: MixGUARD® ACXtra is moderately withstand with sunlight and UV for a minimum period; however, it is recommended to provide a cement mortar as a protective render to extend the life and performance of membrane

Packing & Storage

MixGUARD® ACXtra is available in 20 kg Unit

Part A(Powder) : 15kg

Part B (Liquid) : 5Liters

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MixGUARD® ACXtra 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® ACXtra contains no poisonous 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

Rev. MGACX/NOV/2024/06/IN

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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- onapplication. 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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