

MixGUARD® HR5T

Polyester-fleece reinforced elastomeric waterproofing system

MixGUARD® HR5T is a Polyester fleece reinforced multicomponent; acrylic based heavy duty high tensile waterproof and weatherproof high build coating system with heat reflectivity. It is durable, flexible and has a high level of resistance to weathering agents like UV rays, sunlight, frost, rainfall etc and the presence of Polyester fleece as a matt imparts higher tensile strength, enhance mechanical property of the film comparing with other system and it is recommended mainly in the areas where crack developing anticipated in cementitious screeds over the terrace or roof slabs

System specification with methodology and consumption

The system consists of a base primer/sealer MixPRIME® AC100 modified with cement as a slurry coat at a ratio of 2:1:3 (MixPRIME® AC100:Water:Cement) by volume (MixPRIME® AC100 (0.350 L/Sq m) and apply over the prepared sound surface at 0.750L/Sq m and allow to cure. Then saturate and place MixFELT P50 at an overlapping of 100 mm in MixPRIME® AC100 slurry modified at a ratio of 2:1:1 (MixPRIME® AC100:Water:Cement) by volume (MixPRIME® AC100 (0.250 L/Sq m) with a leveling coat at 0.500 L/Sq m over the base primer, Thoroughly check the fleece and level it with the same slurry and allow for curing. Apply intermediate coat with MixGUARD® HR @ 0.5Kg/Sqm then top coat with MixGUARD® HR Xtra @ 0.5Kg/Sqm in single coat without any modification

All layers of cold applications should be at right angle to each other and recommended to keep minimum 4 hours time gap in between each layer of application. Leave the system for 100 hours complete curing prior to carry out pond test or pedestrian traffic

Appropriation

Highly recommended to waterproof most types of roofs – HP tiles, sound plastered / screed / RCC slab
Existing sound structures with cracks (cracks must be sealed with suitable mortar)

Characteristics

- Waterproof
- Elastomeric; crack bridging,
- High tensile strength; High level resistance to surface cracks development
- Anti-algal and anti-fungal
- Suitable for pedestrian traffic
- Good adhesion to substrate
- Cold applied – easy to apply
- Barrier against carbon dioxide, water, sulphates and chloride ions

Technical Data & Properties

Appearance	: Viscous liquid components
Dry film appearance	: Joint free membrane
Colour	: white / grey and Terracotta on request
Standard conform to	: ASTM C836
System density	: 1.3 gm/cc
System solids content	: 72±2% by weight
Elongation at break ASTM D 638	: 70%(for the system)
Adhesion to substrate ASTM D 4541	: >1.5 N/mm ²
Water penetration DIN 1048	: no leak at 5bars
Tear resistance ASTM D 1004-76	: 21N/mm ²
Tensile strength ASTM D 412-87	: 8 to 9N/mm ²
Application temperature	: 5°C to 50°C
Dry film thickness	: 1500 to 1700 microns
Touch dry	: 4hrs at 25°C
Recoatible	: 6-8 hrs at 25 deg C
Full cure	: 7 days

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Product Management

Surface preparation: Good surface preparation practice is a key element to achieve optimum result and life of any cold applied systems. 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 clean prior to application. Do not allow ponding or pooling. De-bonded/ damaged concrete should be cut back to sound concrete and made good with a suitable cementitious repair mortar. Roofing tiles should be firmly bedded and grouted before application.

Ensure and follow the surface preparation method of MixPRIME® AC100 slurry - base primer- to achieve the overall performance of the system

The surface preparation may vary according to the substrate condition and strictly adhere with the methodology especially base surface primer and in each layer of application as well. Contact FAB Chemical's technical service department for any further assistance or detailing

Mixing

Stir MixGUARD® HR5T components well with slow speed mixing machine with suitable mixing pad to get a homogeneous mix before applying

Curing

MixGUARD® HR5T components are self-curing and follow the time gap in between the coats to get an optimum performance. Leave 72 hours for complete system curing prior to foot traffic

Cleaning

Clean the tools with water immediately after the application

Packing & Storage

MixGUARD® HR5T liquid components are available in 5/10/20 kg packs and it shall be stored in cool, dry and shaded conditions. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per manufacturer's recommendations. In extreme tropical climate, the product shall be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

MixGUARD® HR5T 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 the 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 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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