MIXGUARD HR5

Elastomeric fiber reinforced waterproof cum heat reflective system

Mixguard HR5 is a 5 layer aliphatic multi component; acrylic based fiber reinforced heavy duty waterproof and weatherproof high build coating with heat resistance. 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 synthetic fiber imparts higher tensile strength and wear & tear property

The system consists of 5 layers; which include a base primer/sealer MIXPRIME AC100 modified with cement as a slurry coat and place MIXMATGFM50 directly along with MIXPRME AC100 slurry with 50mm overlapping. Apply a elastomeric bonding primer with MIXPRIME AC and over that top coats with MIXGUARD HR then MIXGUARD HRXtra in 3-4 hours time interval

Appropriation

Highly recommended to waterproof most types of roofs – HP tiles, sound plastered / screed / RCC slab
New and existing structures

Characteristics

Waterproof
Elastomeric - crack bridging
Excellent resistance to weathering agents
Anti-algal and anti-fungal
Suitable for pedestrian traffic
Non-toxic
Good adhesion to substrate
Easy to clean
Cold applied – easy to apply
Easy maintained
Barrier against carbon dioxide, water, sulphates and chloride ions
Breathable – water vapour can escape from the structure

Technical Data & Properties

Appearance: White/ Grey / Terracotta liquid components
Dry film appearance: Joint free membrane
Density: 1.3 gm/cc
Solids content: 68% ± 2% by weight
Elongation at break ASTM D 638: 200% (for the system)
Adhesion to substrate ASTM D 4541: >1.5 N/mm^2
Water penetration DIN 1048: no leak at 7 bars
Tear resistance ASTM D 1004-76: 17N/mm^2
Tensile strength ASTM D 412-87: 6.0N/mm^2
Application temperature: 5 °C to 50 °C
Dry film thickness: 1500 to 1700 microns
Touch dry: 2 hrs at 25 deg C
Recoatable: 6-8 hrs at 25 deg C
Full cure: 7 days

Product Management

Surface preparation: Concrete and masonry substrates shall be at least 14 days old and the moisture content less than 7%. It should be dry and free of dust, dirt, oil, grease, loose particles, curing compounds, form release agents etc for the optimum performance of the system. This can be achieved by wire brushing, grit blasting, high pressure water jetting etc. Bitumen based membranes completely removed from the substrate by mechanical scarification or by any other mechanical way. In existing old terraces with Brick-bat-coba or cement screeds, the substrate must be thoroughly checked for its micro / hair line cracks for its soundness.

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Surface cracks must be filled with Mixbuild GP/Mixflex AC and Hollow or damaged portions, sharp edges and wide cracks must be cut and repaired with Mixbuild SR – Polymer modified repair mortar. The surface with existing HP tiles shall be thoroughly checked and replace the broken / debonded tiles with Polymer modified mortar. Damaged tile joints must be filled with same mortar to surface level

Mixing

Stir Mixguard HR5 components well with slow speed drilling machine with suitable mixing pad to get a homogeneous mix before applying.

System Application procedure with consumption

Mixguard HR5 components can be applied by brush, roller or air less spray. First base surface stabilizing sealer / primer coat consists of Mixprime AC100 modified with Cement and water at a ratio of 2:1:3 (Mixprime AC100:Water:Cement) by volume (Mixprime AC100@0.350L/sqm) and apply as a slurry coat directly on the cleaned surface at an average coverage of 6m²/mix to penetrate and stabilize the substrate place MIXMAT GFM50 directly along with slurry with 50mm overlapping and allow to cure for minimum 4 hours. Generally over lapping is recommended in 50mm and can be extended up to 75mm depending on the surface condition. Apply Mixprime AC over the GFM mesh at an average consumption of 0.250kg/sqm and allow drying for 3 hours. An Intermediate elastomeric water proofing coat is carried out by Mixguard HR @0.5kg / sqm and allows drying for 3 to 4hrs and applies Mixguard HRXTRA@0.5kg/sqm as a high tensile final coat. The base coat coverage may vary depends on the substrate condition

Curing

MIXGUARD HR5 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 HR5 liquid components are available in 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 HR5 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 -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 ambiance, climatic disparity in temperature, humidity,etc... and porosity of substrate may impinge on the values.

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