

# MixGUARD<sup>®</sup> HR5

Elastomeric fiber reinforced multi-layer waterproof cum heat reflective system

**MixGUARD<sup>®</sup> HR5** is a 5 layer multi component; acrylic based micro virgin polypropylene fiber reinforced heavy duty waterproof cum heat reflective high build coating system. 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 in top layer and fiber mesh as a reinforcement layer imparts comparatively higher tensile strength and enhance wear & tear properties of system

## System specification with consumption

MixGUARD<sup>®</sup> HR5 components can be applied by brush, roller or air less spray. First base surface stabilizing sealer / primer coat consists of MixPRIME<sup>®</sup> AC100 modified with Cement and water at a ratio of 2:1:3 (MixPRIME<sup>®</sup> AC100: Water: Cement) by volume (MixPRIME<sup>®</sup> AC100 @0.350L/Sq. m) and apply as a slurry coat directly on the cleaned surface at an average consumption of 1L/Sq. m and place MixMAT GFM 50/70 directly along with this MixPRIME<sup>®</sup> AC100 slurry application with 100mm overlapping without any bulging and in neat finish. Apply MixPRIME<sup>®</sup> AC- elastomeric bonding / primer coat directly over the cured base layer at a consumption of 0.250kg/Sq. m and allow to dry. An Intermediate elastomeric water proofing coat is carried out by MixGUARD<sup>®</sup> HR followed by MixGUARD<sup>®</sup> HR Xtra as a high tensile final coat. Each MixGUARD<sup>®</sup> HR & MixGUARD<sup>®</sup> HR Xtra applies at a consumption of 0.5kg/ Sq. m in single coat without any modification. All layers of cold applications should be at right angle to each other and recommended to keep minimum 6 hours' time gap in between each layer of application. Leave the system for 72 hours complete curing prior to carry out pond test or pedestrian traffic

## Appropriation

Highly recommended to waterproof most types of roofs – HP Clay tiles, sound plastered / screed / RCC slab / brick bat Coba etc. New and existing structures

## Characteristics

- Excellent Waterproof and heat reflective system
- 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 maintain and cleaning
- Cold applied – easy to apply
- Barrier against carbon dioxide, water, sulphates and chloride ions
- Breathable – water vapor can escape from the structure

## Technical Data & Properties

Appearance	: High viscous liquid components
Standard conforms to	: ASTM C836
Dry film appearance	: Joint free membrane white/Grey top matt finish
Specific gravity	: 1.30± 2% gm./cc
Solids content	: 70% ± 2% by weight
Elongation at break ASTM D 638	: 200%(for the system)
Adhesion to substrate ASTM D 4541	: >1.5 N/mm <sup>2</sup>
Water penetration DIN 1048	: no leak at 7 bars

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Tear resistance ASTM D 1004-76	: 17N/mm <sup>2</sup>
Tensile strength ASTM D 412-87	: 6.0N/mm <sup>2</sup>
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°C
Full cure	: 7 days

## Surface conditions

The system can be applied over old and new surfaces such as HP Clay tiles, sound plastered / screed / RCC slab / existing asphalt or Acrylic

## Product Management

Surface preparation: Good surface preparation practice is a key element to achieve optimum result and life of any cold applied systems. New concrete or masonry substrates shall be at least 14 days old and preferable substrate moisture content is less than 5% prior to base layer application

Ensure and strictly follow the surface preparation method for base primer slurry - MixPRIME<sup>®</sup> AC100 slurry - to achieve overall performance of the system and application method of each layer as per detail system application methodology

Note: The surface preparation may vary according to the substrate quality and nature. Strictly adhere with the detail surface preparation methodology and system method of application for different surfaces.

Contact FAB Chemical's technical service department for any further assistance or detailing

## Mixing

Stir MixGUARD<sup>®</sup> HR5 components well with slow speed mixer machine with suitable mixing pad to get a homogeneous mix before applying

**Application procedure:** MixGUARD<sup>®</sup> HR5 components can be applied by brush, roller or air less spray. Follow the method of applications as per system specification. Apart from system or in general applications contact FAB Chemical's technical service dept. for detailing in method of application and assistance specially in maintenance segment where old coatings like Asphalt, Polyurethane or Brick bat Coba is involved

## Curing

MixGUARD<sup>®</sup> HR5 components are self-curing and strictly follow the time gap in between the coats as per methodology to get an optimum performance. Leave 100 hours for complete system curing prior to foot traffic or ponding

## Cleaning

Clean the tools with water immediately after the application

## Packing & Storage

MixGUARD<sup>®</sup> HR5 liquid components are available in 20 kg/20L 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

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shall be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

**Health & Safety:** MixGUARD<sup>®</sup> 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 - 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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