Mixguard HR Combo System

Mixguard HR Combo system is a 4 layer aliphatic multi component; micro fiber reinforced heavy duty waterproof and weatherproof coating with heat resistance properties. 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 ceramic spheres particles and Sodium boro silicate reinforced in the base and top coat will reduce the passage of sunlight thru the membrane and will get an ambient temperature down considerably

The system consists of 4 layers;
MIXPRIME AC100 modified with cement as a slurry coat and a primer / stabilizing coat
MIXGUARD HR200 – Base coat
MIXGUARD HR300 – Intermediate water proofing coat
MIXGUARD HR400 – Top final coat with heat reflection / water proofing

Appropriation
Highly recommended to waterproof most types of slop roofs
Concrete
Masonry
Metal
Asbestos, weathering tiles etc
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 liquid
Density: 1.2 gm/cc
Solids content: 60% ± 2% by weight
Elongation at break ASTM D 638: 200%
Adhesion to substrate ASTM D 4541: >1.2 N/mm²
Water penetration DIN 104: no leak at 7 bars
Tear resistance ASTM D 1004-76: 17N/mm²
Tensile strength ATM D 412-87: 6.0N/mm²
Application temperature: 5 °C to 50 °C
Dry film thickness at 1kg/m²: 1200 to 1500 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. 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.

Surface cracks must be filled with Mixbuild AP and Hollow or damaged portions, sharp edges and wide cracks must be cut and repaired with Mixbuild SR – Polymer modified repair mortar

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

Application procedure: Mixguard HR Combo System can be applied by brush, roller or air less spray. First coat consists of Mixprime AC100 modified with Cement at a ratio of 1:4 (MPAC: Cement) and apply as a slurry coat directly on the prepared surface at an average coverage of 4-5m²/ltr to penetrate and stabilize the substrate. After a curing of 4 hours apply MIXGUARD HR200 as base coat. Allow curing for same 4 hours and apply MIXGUARD HR300 as an intermediate coat. Leave the system for 12 hours at 25°C to obtain maximum curing level and apply MIXGUARD HR400 as a top final coat. Any pond test / foot traffic can be carried out after 72 hours of complete system top coat curing.

Curing: Mixguard HR Combo System is self-curing

Cleaning: Immediately clean the tools with water

Packing & Storage
Mixguard HR Combo System is 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 HR Combo System 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