

MIXGARDE ecoWP

Highly elastomeric eco friendly waterproof / thermal insulation coating

MIXGARDE ecoWP is a single component; aliphatic, inorganic polymer based single component waterproof and weatherproof coating for indoor and outdoor applications with high elasticity and heat resistance. It is durable, flexible and as per green concept. It has a high level of resistance to weathering agents like UV rays, sunlight, frost, rainfall etc. The isolated pores which are not connected produce a highly dense micro structure coupled with its ability to strongly bond with all cement substrate, brickwork and acts as a water proof / weatherproof membrane

Appropriation

Highly recommended to waterproof most types of roofs – concrete, masonry, metal, asbestos, wall etc

Can be used for waterproofing sunken slabs where more flexibility is required

Characteristics

Waterproof

Elastomeric - crack bridging

Excellent resistance to weathering agents

Anti-algal and anti-fungal

Self curing

Suitable for pedestrian traffic

Non-toxic – breathable and washable

Good adhesion to substrate

No V O C contents

Dry film forms a tough surface, no protective system required; foot traffic permitted

Technical Data & Properties

Appearance: White/Grey liquid

Density: 1.2 gm/cc

Solids content: 60% ± 2% by weight

Elongation at break ASTM D 638: 400%

Tensile strength ASTM D 412: 1.8N/mm²

Adhesion to substrate ASTM D 4541: >1 N/mm²

Water penetration DIN 1048: no leak at 5 bars (+ve side)

Water vapor transmission ASTM E96: 19g/m²/day

Crack bridging ASTM C836: No cracks up to 2mm width

Application temperature: 5 °C to 50 °C

Dry film thickness at 1kg/m²: 1200 microns

Touch dry: 2 hrs at 25 deg C

Recoatible: 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 HB – Polymer modified repair mortar

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Highly elastomeric waterproof / heat resistant coating

Mixing: Stir MIXGREEN WP well to get a homogeneous mix before applying

Priming: Apply MIXECOPRIME at 10 – 12m²/kg and allow to dry for 2 hours at 25°C primer coat is require to penetrate and stabilize the substrate

Application procedure: MIXGARDE ecoWP can be applied by brush, roller or air less spray. Apply a minimum of two coats with undiluted material at 0.5kg/m²/coat. It is important to ensure that each coat is cured before applying the next coat (normally 6 to 8 hours at 25 deg C). The second coat shall be applied at right angle to the first coat. For improved results, a glass fibre mat (MIXMAT GFM) may be embedded into the first coat while it is still wet on all corners and other critical areas.

Curing: MIXGREEN WP is self-curing

Cleaning: Immediately clean the tools with water

Packing & Storage

MIXGARDE ecoWP is available in 20 kg packs. MIXGARDE ecoWP 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

MIXGARDE ecoWP 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 datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the 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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