

MIXGUARD PU100

Poly-urethane based UV resistant waterproof / protective coating

Description

MIXGUARD PU100 is single component UV-resistant polyurethane based elastomeric waterproof coating. It reacts with atmospheric moisture and forms into a seamless membrane that does not discolor upon exposure to the Sun.

Appropriation

Suitable to waterproof / protective coating most types of roofs and podiums – concrete, masonry, metal, asbestos etc where color retention is essential / original color of the substrate needs to be maintained

Waterproofing landscape areas, especially on roof and podium

Characteristics

Waterproof

UV resistant - Aliphatic

Elastomeric - crack bridging

Anti-algal and anti-fungal

Suitable for pedestrian traffic

Resistant to chalking and flaking

Easy application by roller and brush

Good adhesion to substrate

Technical Data & Properties

Appearance: pigmented/ transparent liquid

Density: 1.3 gm/cc

Solids content: 70% ± 2% by weight

Elongation at break ASTM D 638: 150%

Adhesion to substrate ASTM D 4541: >2 N/mm²

Tensile strength ASTM D 638: 25 N/mm²

Water absorption ASTM C 2240: <0.5%

Shore D hardness ASTM D 2240: 65

Application temperature: 10 °C to 40 °C

Dry film thickness at 1kg/m²: >500 microns

Touch dry: 1 hr at 25 deg C

Recoat able: 4-6 hrs at 25 deg C

Full cure: 7 days

Product Management

Surface preparation: Concrete and masonry substrates shall be at least 28 days old and 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 or any other suitable mechanical means

Repair: MIXBOND SBR modified cement/sand mortar recommended

Priming: Not required for new substrate. For old and porous substrate – MIXGUARD PU100 is diluted up to 15% with MIXSOLVENT and applied at 0.10kg per m² and allowed to dry

Mixing: Stir well to get a homogeneous mix before applying

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Application: MIXGUARD PU100 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 4 to 6 hours at 25 deg)

C). Prior to second coat, a close visual inspection of the surface should be made for any pin holes or surface irregularities and shall be made good with MIXGUARD PU100. The second coat of 0.5kg/m² - should be applied at right angle to the first, to ensure a full unbroken coating to the substrate.

For landscape waterproofing, MIXGUARD PU100 should be reinforced fiberglass flakes and polystyrene cloth should be embedded in, to prevent root penetration

Curing: MIXGUARD PU100 is self-curing

Cleaning: Clean the tools immediately with cleaning solvent

Packing & Storage

MIXGUARD PU100 is available in 20 kg packs. 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 must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

Health & Safety

MIXGUARD PU100 contains hazardous substance and therefore shall be applied in areas with good ventilation. 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 MSDS released on each FAB product

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THE CONSTRUCTION CHEMIST

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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