

MixGUARD® Poly700

Fluid applied Polyurethane high build waterproof coating

MixGUARD® Poly700 is a single component; modified polyurethane waterproof coating with high elasticity and durability under weathering, UV and thermal cycles. It is flexible and has an excellent resistance to atmospheric frost, rainfall etc. It is recommended use in exposed conditions and must be over coated with UV stable Polyurethane coating for exposed area water proofing

MixGUARD® POLY700 is based on pure elastomeric hydrophobic high viscous modified polyurethane, which results in excellent thermal and natural element resistance properties. MixGUARD® Poly700 film cures to form a seamless membrane by reaction with ground and air moisture

Appropriation

- Highly recommended apply as a top coat in multilayer waterproofing system
- Most types of roofs – concrete, masonry, metal, asbestos etc.
- Roofs & terrace slabs
- Utility slabs
- Over Asphalt membranes (refer application method)

Characteristics

- Highly durable Waterproof membrane
- Highly capable to bridge structural cracks
- Anti-algal and anti-fungal
- Suitable for pedestrian traffic
- Resistance against detergents, diluted acid & Alkali solutions, Saline water, cleaning agents, hard water etc.

Technical Data & Properties

Property	Data	Test method
Physical appearance	High viscous creamy compound	
Viscosity	60000-65000	Brookfield
Colour & Finish	Dark Grey: seamless joint free membrane	
Density	1.3 gm/cc± 2%	ASTM D 1475
Solid content	70% ± 2% by weight	
Elongation at break	600%	ASTM D 638
Tensile strength	> 1.5N/mm ²	ASTM D 412
Adhesion to substrate	> 1.5N/mm ²	ASTM D 4541
Water penetration	No leak at 1m water column (72Hrs)	DIN 1048
Water vapor transmission	19g/Sq. m/day	ASTM E96
Shore A Hardness	65	ASTM D 2240
Crack bridging	No cracks up to 2mm in 2000 microns DFT	ASTM C 836
Solar reflectance (SR)	94% (white color)	ASTM E903-96
UV Accelerated aging	No significant changes	EOT TR-010
Pot life	45-60 Min. at 25°C	
Application temperature	5°C to 50°C with RH <85%	
Touch dry / rain stability	4 hrs. at 25°C	
Recoatable	10 hrs. at 25°C	
Full cure	7 days	

Product Management

Surface preparation: Concrete or masonry substrates shall be at least 28 days old and the moisture content should not be more than 5%. New concrete structures need to dry for minimum 28 days. Old, loose coatings,

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dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface undulations and irregularities need to be leveled or smoothed. Any loose surface pieces and grinding dust need to be removed with air blower. Strictly do not wash surface with water at any stage of application. The product is not recommended to apply directly over the substrates without primer

Priming: It is recommended to apply a primer coat with MixPRIME® PU200 for normal and absorbent surfaces. Contact FAB technical department for suitable primer according to the substrate condition. Refer product TDS for detail surface preparation method

Mixing: Stir the compound well to get a homogeneous mix before applying

Application procedure: MixGUARD® Poly700 can be applied by brush, roller or air less spray. It is recommended to apply a base surface stabilizing primer and minimum of two coats at 0.8kg/Sq. m/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 subsequent application shall be applied at right angle to the first coat. For improved results, a glass fiber mat (MixMAT) may be embedded into the first coat while it is still wet on all corners and other critical areas. No modification or dilution is permitted

Note: It is recommended to apply a top coat of MixGUARD® Elastop-AL for colour stability and durability for a long time performance

Cleaning: Immediately clean the tools with water

Packing

MixGUARD® Poly700 is available in 5/10/20 kg packs.

Storage

MixGUARD® Poly700 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® Poly700 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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