

# MixGUARD® Poly500

Fluid applied Polyurethane waterproof coating

**MixGUARD® Poly500** is a Single component; modified polyurethane waterproof coating with high elasticity and durable. It is flexible and has a high level of resistance to frost, rainfall etc. It is recommended use in unexposed conditions and must be over coated with UV stable Polyurethane coating for exposed area water proofing

MixGUARD® Poly500 is based on modified pure elastomeric hydrophobic modified polyurethane, which results in mild natural element resistance properties. MixGUARD® Poly500 film cures to form a seamless membrane by reaction with ground and air moisture

## Appropriation

Can be used in unexposed area waterproofing in utility slabs where more flexibility is required

Highly recommended apply as an intermediate coating in multilayer waterproof most types of roofs – concrete, masonry, metal, asbestos etc.

## Characteristics

- Highly durable Waterproof
- Highly capable to bridge structural cracks
- Anti-algal and anti-fungal
- Suitable for pedestrian traffic
- Non-toxic – breathable and washable
- Excellent adhesion to substrate
- Coal Tar free
- Non Torch application

## Technical Data & Properties

Property	Data	Test method
Physical appearance	High viscous creamy compound	
Viscosity	60000 to 65000	Brookfield
Colour & Finish	Light Grey: seamless joint free membrane	
Density	1.30gm/cc	ASTM D 1475
Solid content	70% ± 2% by weight	
Elongation at break	600%	ASTM D 638
Tensile strength	> 1.5N/mm <sup>2</sup>	ASTM D 412
Adhesion to substrate	> 1.5N/mm <sup>2</sup>	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
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

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should not be more than 5%. New concrete structures need to dry for minimum 28 days. Old, loose coatings, 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 smoothened. 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® Poly500 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°C). The subsequent application shall be applied at right angle to the first coat. For improved results, a glass fibre 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® Poly500 is available in 5/10/20 kg packs.

### Storage

MixGUARD® Poly500 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® Poly500 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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