

MixGUARD® Poly15

Polyurethane waterproof coating

MixGUARD® Poly15 is a fluid applied, hydrophobic one component, modified polyurethane membrane used for long lasting waterproofing coating with high durability and elasticity. It is flexible and has a high level of resistance to water seepage or leakage. It is highly recommended and designed to use in unexposed conditions and must be protected with plaster, screed, or Light weight foam concrete etc. and for any such subsequent toppings directly over the system, spread out a Geotextile membrane of minimum 200gsm with 100 mm overlapping as a protection

MixGUARD® Poly15 is based on modified polyurethane resins, which result in excellent tear and wear resistance properties. MixGUARD® Poly15 components coatings cures in reaction with atmospheric moisture

Appropriation

- Can be used in unexposed area under tile waterproofing in Podium, utility, wet area slabs, bath rooms, balcony, planter box etc. where more durability and flexibility is required
- Roof or terrace slabs subject to cover with Cement topping, tiling etc.

Characteristics

Highly durable Waterproof
 Highly capable to bridge structural cracks
 Anti-algal and anti-fungal
 Easy to use – single component
 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 Liquid form	
Viscosity	60,000 to 65,000	Brookfield
Colour & Finish	White: seamless joint free membrane	
Density	1.30gm/cc	ASTM D 1475
Elongation at break	400%	ASTM D 638
Tensile strength	> 1.50N/mm ²	ASTM D 412
	> 8N/mm ² with fiber mesh reinforced	ASTM D 412
Adhesion to substrate	> 1.50N/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	60	ASTM D 2240
Crack bridging	No cracks up to 2mm in 2000 microns DFT	ASTM C 836
Pot life	20-25 Min. at 25°C	
Application temperature	5°C to 50°C with RH <60%	
Touch dry / rain stability	2 hrs at 25°C	
Recoatible	10 hrs at 25°C	
Full cure	7 days	



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Product Management

Surface preparation: A perfect surface preparation is the key element to achieve optimum result in any water proofing applications. 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, dirt, fats, oils, organic substances and dust need to be removed by mechanical method. Possible surface undulations and Irregularities need to be leveled or smoothed by grinding or sand blasting. Strictly do not wash the surface with water at the stage of base primer application. In case any such water jetting is required, allow the substrate to sufficient dry to reach the substrate moisture level less than 5%

Blow holes in concrete substrates shall be filled with MixBUILD® GP – Repair putty. Surface cracks and cold joints must be widened and filled with suitable sealant (Acrylic or Polyurethane) and building joints must be treated as per standard expansion / construction joint sealing practice

Priming: It is recommended to apply a primer coat with MixPRIME® PU100 at 0.200Kg/Sqm for normal and absorbent surfaces. Contact FAB technical department for suitable primer according to the substrate condition

Application procedure: MixGUARD® Poly15 can be applied by brush, roller or air less spray over the primed substrate

For General applications minimum consumption is 1.000Kg/Sq. m in two coats. Critical areas such as commercial buildings, continuously wet areas, Domes, Chimney's etc.; After primer embed MixMAT GFM70 with 100mm over lapping and apply a coat at 0.500Kg/Sq. m and subsequent two top coats at 0.750Kg/Sq. m each. Areas where increased DFT may require for a heavy duty performance it is recommended two coats at 0.750Kg/Sq. m each after a primer coat in areas like podium slab, domestic bath rooms, kitchen etc.

Pour the MixGUARD® Poly15 onto the prepared and primed surface and lay it out by roller, brush or squeegee, until entire surface is covered

It is recommended to use airless sprays allowing a considerable saving of manpower in large area water proofing .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

Point to be noted: Compulsory spread out Geotextile fabric with 200GSM before subsequent cement toppings or tiling to protect the membrane from physical damages

Cleaning: Immediately clean the tools with thinner

Packing

Available in 5&20 kg packs

Storage

The product 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

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Health & Safety

MixGUARD® Poly15 contains resins and amines substances. 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- onapplication. 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.

Corporate Office
PYCHEM Co. L.L.C
Post Box 23940, Sharjah
United Arab Emirates
Website:www.phychem-cc.com

Under Technical Collaboration with:
MIX UK Limited,
United Kingdom

Registered Office
S.F.No.74/2,D.No.2/196-A
Kalipalayam Road, Vellamadai
Coimbatore-641110
Tel: +91 422 2929313,
E-mail: mail@fab-cc.com
Website: fab-cc.com