

MIXGUARD PU1500RB

Poly-urethane based UV resistant waterproof / root barrier

Description

MIXGUARD PU1500RB is multi 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

the system reinforcement designed for all types of roof water proofing works specially roof gardens, flower boxes, Waterproofing landscape areas, and podium

The system consists of 4 layers with penetrative primer, screed and two aliphatic top coats

Characteristics

Waterproof
UV resistant
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: 600-700% (top coat)
Adhesion to substrate ASTM D 4541: 2.5 N/mm²
Flexural strength ASTM D 638: 25 N/mm²
Water absorption ASTM C 2240: <0.5%
Application temperature: 10 °C to 40 °C
Dry film thickness at : 1500 microns full system
Touch dry: 1 hr at 25 deg C
Recoat able: 6-8 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. A close visual inspection of the surface should be made for any pin holes or surface irregularities and repair it with suitable repair medium

Repair: MIXBOND SBR modified cement/sand mortar recommended deep area shall be treated with suitable repairing material in MIXBUILD range

MIXGUARD PU1500RB

Poly-urethane based UV resistant waterproof / root barrier

System:

MIXPRIME PU - Penetrative primer on surface after surface preparation
MIXSCREED – Epoxy reinforced screed
MIXGUARD PU250 – Aliphatic top coat in two layers

Mixing: Stir well to get a homogeneous mix before applying

Application: MIXGUARD PU1500RB can be applied by brush, roller or air less spray.

Primer: The primer is designed for maximum absorption and adhesion to concrete. Add the entire content of the hardener tin into base tin and mix the two primer components thoroughly for at least 2 minutes – avoid part mixing without proper measurement medium. One mixed the primer should be applied immediately to the prepared substrate using stiff brushes or roller. The primer should be well scrubbed into the substrate to ensure full coverage, but care should be taken to avoid over application or ponding. Allow the primer to cure fully at 6-8 hours in 30°C.

Screed: The pre-weighted packs (base, hardener and aggregate) shall be mixed with forced action mixer, slow speed drill fitted with suitable paddle. The color pack should be added to the base container and mixed for 15-30 seconds, until homogeneous. Then add the hardener and mix for further 30 seconds, until an even colour and texture obtained. There after the contents of the graded aggregate packs should be slowly added and mixing carried out for further 3 minutes until a completely homogeneous material obtained.

The material should be poured onto the prepared primed surface as soon as mixing is complete. It should be spread to the required thickness using a serrated trowel; with care taken not to overlook the resin, spreading evenly and slowly. Immediately after laying, the material should be rolled, using a spiked nylon roller, to remove slight trowel mark and to assist air release. The rolling should be carried out using a back and forth technic along the same path. An overlap of 50% with adjacent paths is recommended.

Curing: MIXGUARD PU1500RB is moisture curing system

Cleaning: Clean the tools immediately with cleaning solvent

Packing & Storage

MIXGUARD PU1500RB is available in 20/30 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

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

Rev. Nov-10/01

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.

Group Head office:

PYCHEM Co. L L C
Post Box 23940, Sharjah.
Te: +971 6 5420414 / 5431636
Fax: +971 6 5421446
Mail: mail@fab-cc.com
fabchem@gmail.com

Under Technical Collaboration with
MIX UK Limited
Cherry Tree House, Cherry Tree Lane
Rostherne, Cheshire, WA143RZ
Web: www.mixuk.com

Head office:

T33A/1, Thryambhava Houses
Kalapetty road, Coimbatore – 14
Tel: 0422 3222245
Fax: 0422 2625207
Mail: mail@fab-cc.com
fabchem@gmail.com

THE CONSTRUCTION CHEMIST



FABCHEM



PYCHEM



MIX UK LTD