

MIXGUARD UR

Pitch-modified PU water-proof membrane

MIXGUARD UR is a liquid applied, one part, moisture curing pitch modified polyurethane coating, which once cured, forms a tough and elastic waterproofing layer with very high percentage of elongation and excellent recovery

Appropriation

Waterproofing of wet areas, roofs, basements, balconies and patios
Waterproofing of bridges, parking areas and water retaining structures
Widely used even in substructures exposed to chemically aggressive soil

Characteristics

Excellent adhesion – MIXGUARD UR adheres to most surfaces like asphalt, concrete, roofing felts, asbestos sheeting, tiles, galvanized and coated sheeting, slate, clay tiles, plywood decks, cellular glass insulation, MDF boards, sprayed PU foam, butyl and polypropylene sheet, lead, zinc and aluminum
Easy to use – MIXGUARD UR is a single component, ready to apply product
Ease of repair – Mechanical damages to MIXGUARD UR dried film can be easily repaired by applying a second coat over the damaged area.
No overlaps – MIXGUARD UR ensures a waterproofing layer with no weak joints or over-laps as it is a seamless application
Chemical resistance – Pitch extension of MIXGUARD UR makes the product highly chemical resistant. The irreversible chemical cure imparts excellent stability even at very high temperatures

Technical Data & Properties

Standard confirms: ASTM C 836 – 84
Appearance: Black, viscous liquid
Specific gravity: 1.13
Technical Parameters of cured film (14 days curing):
Elongation: 550% (ASTM D 412)
Tensile strength: 1.5 N/mm² (ASTM D 412)
Shore hardness: 40 (ASTM D 2240)
Recovery: At 100 % elongation, 100 %; at 250 % elongation, 95 %
Water penetration: Pass (DIN 1048)
Moisture vapour transmission: 4.80 gms/m²/24hrs (ASTM E 96)
Chemical properties: Pass (ASTM D 543)
Weather meter result (BS 900) 2000hr: Still pliable, no brittleness, no loss of general properties
Application properties (application temperature):
Ambient: 4 °C to 48 °C; Substrate: 4 °C to 65 °C; Service temperature: -20 °C to 60 °C
Curing time (1 kg/m² spread): Tack free time: 24 hrs; Initial set: 48 hrs; Final set: 7 days
Recoating period: 48 hrs

Product Management

Surface preparation: All surfaces to receive MIXGUARD UR must be clean, dry and free from traces of curing compound, any form of oil grease and other contaminants. New concrete must be cured sufficiently before the application of the coating. Concrete should not contain excess moisture, as it will affect the adhesion properties of the coating. Presence of organic growth should be physically removed and then treated chemically to restrain further growth. The substrate should be thoroughly washed with clean water

Priming: Priming is not normally required for good quality concrete surfaces. In the event of substrate being highly porous or absorbent, a mixture of MIXGUARD UR and Mixsolvent with a 1:1 mix ratio should be applied on the substrate. If the substrate is PVC or metal, Mixprime PU is recommended as the primer coat. Reminiscence of paints, oil, rust, etc. on the metal surfaces should be abraded to expose the metal shine and then cleaned with Mixsolvent

Application: After opening the pail, mix thoroughly for 2 to 3 minutes with mixing paddle before using. Also while closing the pail, ensure to seal the pail carefully to avoid setting of

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left material. MIXGUARD UR is usually applied by brush, trowel or squeegee. The coating can be applied in two coats of 500 microns in each coat. MIXGUARD UR can also be spray applied. For spray grade should be used which is available on request. Spray application can be done only with an airless spraying equipment. The coated substrate should not be exposed to mechanical abrasion of any form before the initial set is achieved. If required, a Mix board 2 mm shall be used as protection course to avoid any damage to the coating. If the application involves multiple coats, ensure that the subsequent coats are applied in perpendicular directions. Applications involving MIXGUARD UR being exposed to sunlight and UV rays should be done after consultation with the Mix Technical team. A coat of resin based solar reflective coating over MIXGUARD UR is mandatory for such applications. Cleaning of tools can be effectively carried out with Xylene or similar solvents

Specific areas like,

Cracks - Surface cracks above 1mm width should be cut and treated with Mixbuild repair system before application of MIXGUARD UR. Smaller cracks should receive an initial coat of MIXGUARD UR extending at least 50 mm beyond the cracks. Allow the coating to be tack free before the application of subsequent coats

Expansion Joints - Expansion joints should be treated with Mixflex PS205 before the application of MIXGUARD UR. Refer the data sheet of Mixflex PS205 for application details. Once fully cured, apply a bond breaker layer on the sealant. In case a sealing strip is used to protect the sealant, make sure that the bond breaker is applied on the sealing strip. In some cases, like at roof, it is recommended to use Mixtex scrim over the expansion joints

Corners and Edges - All corners should have a corner file with at least a 25 mm face. The edges should also be chamfered to obtain a 25mm edge. This is done to avoid the action of pointed load due to back fill or other dressings. All corners and edges should receive an initial coat of MIXGUARD UR, which is extended at least 50 mm on either side of the corner file or the chamfer face. Lay the Mixtex scrim to the same width on the corners. Application of the scrim should be done whilst the 1st coat is still wet in order to drench the scrim completely with MIXGUARD UR. Apply subsequent coats after the coating has become tack free

Caution - MIXGUARD UR should not be applied on potable water retention purposes wet substrates, high moisture areas, over special protective coatings or other surface finishes or as wearing course for foot or vehicle traffic.

Coverage: It covers (for a buildup of 1mm thickness) @ 1.3 kg/m² in 2 coats

Packing & Storage

MIXGUARD UR is available in 20 litres Pails. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. MIXGUARD UR should be stored in cool, dry and shaded warehouses. Shelf life is 10 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per 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

Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing PPE is recommended for maximum safety while handling MIXGUARD UR. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Direct contact with skin can cause irritation. 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 Fab product

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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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