



Epoflex PU

Flexible High Build Epoxy Coating

DESCRIPTION

EPOFLEX PU is a two pack epoxy resin coating modified to impart toughness, resilience and waterproofing properties to the cured film. The abrasion and impact resistance, together with the low temperature flexibility and excellent adhesion to concrete, make Epoflex PU an ideal material for use as a membrane subjected to vehicular traffic. By broadcasting a layer of silica sand or calcined bauxite between coats, a non-slip or non-skid profile can be used.

USES

Epoflex PU is used as a waterproof, tough, chemical resistant membrane for car parks, ramps, plant rooms, walkways etc, particularly where it is important for the cured membrane to retain a degree of flexibility.

ADVANTAGES

- Tough and hardwearing
- Flexible
- Low odour during application
- Good water and weathering resistance
- Excellent abrasion and impact resistance
- Non-slip or non-skid finish available


TYPICAL PROPERTIES

Property	Value
Colour	Grey, Clear (any BS4800 or RAL colour can be supplied)
Pot life @ 20°C	60 minutes
Minimum Overcoating Interval	16 hours
Maximum Overcoating Interval	48 Hours
Coverage	0.25 - 0.3 Kg / M ² / coat
Tensile Strength	15 MPa
Elongation at Break	85%

Chemical Resistance: Excellent resistance to dilute acids and alkalis, oil, petrol, diesel, vegetable oils. Specific advice can be provided by our technical department.

PROCEDURE

Surface Preparation: Concrete shall be a minimum of 21 days old and the residual moisture content shall be below 6%. Ensure that the concrete is clean and free from dust, laitance, grease, oil, curing compound, and existing paint finishes etc. Blow holes and defective concrete shall be made good using a proprietary repair compound, eg. Eponite GP. Suitable mechanical treatment such as vacuum grit blasting, is the preferred method prior to application, as this ensures a good mechanical key. Steel surfaces



shall be shot blasted to a nominal Sa 2.5 Swedish standard. All dust and grease shall be removed prior to coating application. If a delay is likely between blasting and application then it is recommended that the steel is primed to obviate flash rusting.

Mixing: Pour the contents of the CURING AGENT tin into the BASE container and thoroughly mix, preferably by mechanical means until a uniform colour is achieved.

Priming: A primer coat of Epoprime W is recommended on concrete substrates. This will facilitate application to damp or absorbent surfaces. Apply the Epoprime W at a nominal rate of 0.2 kg/M², in accordance with the product datasheet instructions. Allow the milky colour of the primer to disappear before overcoating, this will typically be 2-4 hours.

Application: Apply by brush, short piled roller or airless spray, at a rate of 0.3 kg / M². After a minimum of 16 hours and before a maximum of 48 hours, apply a second coat at the same rate. A non-slip finish may be achieved by broadcasting an appropriate quartz aggregate immediately after the first coat. Brush off excess sand the following day and apply a second coat.

Glass fibre reinforcement may be used in conjunction with Epoflex PU for bund linings so as to provide increased coating thickness, superior mechanical integrity and the ability to bridge fine cracks. The glass fibre fabric is laid onto the first coat of Epoflex PU and smoothed out using a split

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washer roller. The second coat may then be applied after the appropriate interval.

Equipment Cleaning: Clean equipment using Premcrete Cleaning Solvent prior to the coating curing.

Curing: Allow to cure for a minimum of 24 hours @ 20°C prior to light foot traffic access and 48 hours @ 20°C prior to vehicular trafficking. 7 days cure @ 20°C is recommended prior to exposure to chemicals.

PACKAGING & COVERAGE

Pack size : 5 and 15kg packs.

Coverage : Apply at a rate of 0.3kg/M²/coat. A 5kg pack is sufficient to coat 8.3 M² of surface with the recommended 2 coat treatment, providing an overall d.f.t. of 500 microns.

STORAGE

Store in dry conditions at temperatures between 10°C. and 25°C. Do not expose to freezing conditions.

Epoflex PU has a minimum shelf life of 12 months if stored in original unopened containers.

HEALTH AND SAFETY

Wear gloves and goggles.

Wash off splashes immediately with soap and water.

Please refer to Material Safety Data sheet for additional information.