

EPU 050

EPOXY RESIN IN AQUEOUS DISPERSION

In compliance with the requirements of the 1504-2 EUROPEAN STANDARD:

Product for the protection against risk of penetration 1.3 (C), moisture control 2.2 (C), resistivity increase 8.2 (C).

Description

050 is two-component primer for epoxy and epoxy-polyurethane flooring and coatings, for bitumen surfaces to promote adhesion of elastomeric products like **EPU ELASTO** or **EPU C350** series.

Features

- Odorless and non – toxic product ideal for closed places
- Good compatibility with humid supports
- Excellent mechanical properties, hardness and abrasion resistance
- Excellent as primer for bituminous supports
- Good resistance to oils and fuels
- Applicable from +10°C to +45°C

Fields of application

050 is used, as primer, antidust for cement floors, adhesive for construction joints etc.

Application guidelines

050 can be applied with roller, brush or airless spray gun depending on the use.

a) Substrate Preparation

Surface must be clean, grind and dry. Remove dust, laitance, grease, curing compounds, Preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate.

Whenever “shot-blasting” is utilized, be careful to leave concrete with a uniform texture. “Over-blasting” will result in reduced coverage rates of the primer and/or subsequent topcoats. The “shotblast” pattern may show through the last coat, known as “tracking”. The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application.

b) Preparation of the product

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

It is important to remember that this coating has a limited pot life, thus mix only the quantity that can be used within its pot life. Do not leave the mix in the container too long because it will shorten its pot life.

c) Application

- As primer

Apply 100 – 150 g/m² of product thinned 1:1 with water. Theoretical consumption of pure product 50 – 75 g/m². The overlaying interval must be between 50 minutes and 10 hours depending on the environmental conditions.

-As antidust paint

Apply 100 – 150 g/m² of product thinned 1:1 with water. Theoretical consumption of pure product 50 – 75 g/m². After at most 24 hours, apply a second coat of product thinned 1:0,5 with water, with consumption of 200 – 230 g/m². Theoretical consumption of pure product 135 – 150 g/m².

-As adhesive for construction joints

Apply 200 – 300 g/m² of product thinned 1:0,2 with water. Theoretical consumption of pure product 165 – 250 g/m². The overlaying interval must be between 60 minutes and 3 hours, depending on the environmental conditions.

-As consolidating product for porous surfaces and for mortars

Apply the product thinned 1:2 with water in the quantity necessary depending on the absorbency of the support.

Handling and storage

050 can be stored for 12 months in its original packaging in a dry place at a temperature between +5°C and +35°C.

Wear protective equipment (gloves/safety glasses/clothing) to prevent contact with skin and eyes. Keep container closed in a cool dry place. Wash skin thoroughly with soap and water after use. Use with adequate, general and local, exhaust ventilation. In absence of adequate ventilation, use a properly fitted NIOSH respirator. Remove contaminated clothing. Launder before reuse.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA		
COLOR	-	STANDARDS
POT LIFE AT 22°C	60 +/- 10 MINUTES	EN ISO 9514
DENSITY	1,05 +/- 0,05 kg/l	UNI EN ISO 2811-1
MIXING RATIO A/B	1 : 1	-
VISCOSITY AT 20°C	6500 +/- 1300 mPa·s	UNI EN ISO 2555
ABRASION RESISTANCE	< 100 mg	UNI ISO 5470-1 Wheel CS10 1000g, 1000 cycles
NON – VOLATILE – MATTER CONTENT By weight By volume	47% 46%	EN ISO 3251
COMPATIBILITY ON WET CONCRETE	No blistering, no cracking, no flaking ➤ 4,0 MPa	EN 13578
BOND STRENGTH BY PULL-OFF	➤ 3,0 MPa	EN 1542
CO₂ PERMEABILITY	S _D > 50m	EN 1062-6
WATER VAPOUR PERMEABILITY	S _D < 5m	EN ISO 7783-2
LIQUID WATER PERMEABILITY	W < 0,1 kg/m ² x h ^{1/2}	EN ISO 1062-3
CURE RATE Touch dry / Complete curing	8h / 11days	77°F / 25°C

CE		
PERFORMACES IN COMPLIANCE TO CERTIFICATION CE EN 1504-2		
Product type 3314		DoP 108
Characteristics	Product performance	Test Method
Reaction to fire	F	EN 13501-1
CO ₂ permeability	S _D > 50m	EN 1062-6
Liquid water permeability	w < 0,1 kg/m ² x h ^{1/2}	EN 1062-3
Compressive strength	NPD	EN 12190
Water vapour permeability	Class I	EN ISO 7783-2
Abrasion resistance	< 3000 mg	EN ISO 5470-1
Bond strength by pull-off	>2,0 N/mm ²	EN 1542
Hazardous substances	The hardened product does not release hazardous substances	
Compatibility on wet concrete	No blistering, no cracking, no flaking	EN 13578
Electrical resistance	NPD	EN 1081
Thermal compatibility	NPD	EN 13687-1
Resistance to severe chemical attack	NPD	EN 13529

The information contained in this sheet are based on our knowledge and current experiences. They cannot in any case imply a guarantee by our side, nor responsibility for the use of our products, since the usage conditions are not under our control. Before using the product it is thus advisable to make practical tests to confirm the suitability for the intended use in the real operating conditions. EPUFLOOR Sp. z o. o. reserves the right to modify technical features, descriptions and illustrations in any moment. The company declines any civil liability for the non-compliant or inappropriate employment of the product compared to what is disclosed in the technical data sheet.