EPU 020

EPOXY RESIN MODIFIED WITH A REACTIVE THINNER AND A POLYCYCLIC AMINE HARDENER

In compliance with the requirements of the 13813 EUROPEAN STANDARD for synthetic resin – based screeds.

Description

020 is a two-component epoxy resin modified with reactive thinner and polycyclic amine hardener. It is used as a primer. It is also suitable as a epoxy mortar.

Features

- Fluid product
- Low viscosity
- Rapid curing
- Good mechanical features
- Excellent penetration and ability to wet the surface
- Multiuse
- Applicable from +5°C to +35°C on the surface

Fields of application

020 is used as an epoxy primer for absorbent surfaces without moisture, usable as binder for high – resistance mortars. before the laying of any epoxy or urethane system. It has good mechanical and chemical resistance.

Application guidelines

020 can be applied with trowel or squeegee.

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.
020 can be also mix with 100% of quartz 0,1-0,3mm (1:1 ratio).

c) Application

020 must be applied by roller or trowel depending on the type of desired coating. Apply at a rate of approx. 300 gr/sqm. In case of epoxy mortar add 5-6 kg of silica sand for 1 kg of product.

Handling and storage

020 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	70 +/- 10 MINUTES	EN ISO 9514
DENSITY	1,09 +/- 0,05 kg/l	UNI EN ISO 2811-1
MIXING RATIO A/B	100 / 50	-
VISCOSITY AT 20°C	900 +/- 200 mPa·s	UNI EN ISO 2555
NON-VOLATILE-MATTER CONTENT	100%	EN ISO 3251
COMPRESSIVE STRENGTH	65 MPa	UNI EN 13892-2
SHORE D HARDNESS	80	EN ISO 868
FLEXURAL STRENGTH	85 MPa	UNI EN 13892-2
CURE RATE Touch dry / Complete curing	5h / 7days	77°F / 25°C

CE

PERFORMACES IN COMPLIANCE TO CERTIFICATION CE EN 13813

Product type 3502	**DoP 132**	
Characteristics	**Product performance**	**Test Method**
Reaction to fire	F_{FL}	EN 13501-1
Corrosive substances release	SR	
Liquid water permeability	w < 0,1 kg/m² x h½	EN 1062-3
Compressive strength	C60	EN 13892-2
Flexural strength	F50	EN 13892-2
Wear resistance	AR 0,5	EN 13892-4
Bond strength	B2,0	EN 13892-8
Impact resistance	IR20	EN ISO 6272
Sound insulation	NPD	EN ISO 140-6
Sound absorption	NPD	EN 12354-6
Thermal resistance	NPD	EN 12664
Resistance to severe chemical attack	NPD	EN 13529