EPU G800

LOW VISCOSITY TRANSPARENT EPOXY RESIN

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

Description

G800 is a two-component, solvent-free, transparent, epoxy resin-based formula with low yellowing properties. It is used as a finishing coat on internal decorative floors in civil environments subject to pedestrian traffic, such as houses, shops and hotel reception areas. It is also suitable for decorative floors in restaurants, bars, showrooms, etc.

Features

- Versatile use thanks to the low viscosity
- Employable for transparent finish layers, for self-leveling flooring, for multilayer floorings
- Application temperature +10°C to +30°C with relative humidity <70%

Fields of application

G800 improves the floor resistance and gives it a high gloss surface finish. Therefore it is applied for high aesthetic value floors in houses, shopping centres, boutiques, and beauty salons.
This kind of material allows to embody several different thin objects as copper/aluminium foils, glittering chips or beads, drawings and stick-on labels.

Application guidelines

G800 can be applied with notched squeegee.

a) Substrate Preparation

Surface must be clean, sound 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

Pour a bead of material and spread it with a notched or flat squeegee, to obtain a layer approximately 1 mm thick (maximum 2 mm) the consumption is about 1 kg/mm . Do not exceed the thickness recommended per coat.

Handling and storage

G800 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	TRANSPARENT	STANDARDS
POT LIFE AT 22°C	60 MINUTES	EN ISO 9514
DENSITY	1,08 +/- 0,05 kg/l	EN ISO 2811-1
MIXING RATIO A/B	100 / 60	-
VISCOSITY AT 20°C	800 +/- 150 mPa·s	UNI EN ISO 2555
NON-VOLATILE-MATTER CONTENT By weight	99%	EN ISO 3251
COMPRESSIVE STRENGTH	>75 MPa	EN 13892-2
SHORE D HARDNESS	80	EN ISO 868
FLEXURAL STRENGTH	>90 MPA	EN 13892-2
WEAR RESISTANCE-BCA	<50µm	EN 13892-4
BOND STRENGTH	>4,0 MPa	EN 13892-8
ABRASION RESISTANCE	<100 mg	EN ISO 5470-1 Wheel H22 1000g, 1000 cycles
IMPACT RESISTANCE	4 N·m	EN ISO 6272
SLIP/SKID RESISTANCE Dry	>70	EN 13036-4
CURE RATE Touch dry / Complete curing	8h / 10 days	77°F / 25°C
RESISTANCE TO SEVERE CHEMICAL ATTACK	SULPHURIC ACID 20% - CLASS II SODIUM HYDROXIDE 20% - CLASS II	EN 13529

CE

PERFORMACES IN COMPLIANCE TO CERTIFICATION CE EN 13813

Product type 2710	**DoP 126**	
Characteristics	**Product performance**	**Test Method**
Reaction to fire	F_{FL}	EN 13501-1
Corrosive substances release	SR	
Liquid water permeability	NPD	EN 1062-3
Compressive strength	C70	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	IR4	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	CR11 (Class II), CR10 (Class II)	EN 13529

CR10: Sulphuric acid at 20%
CR11: Sodium hydroxide at 20%