

EPU EP30SL

SOLVENT-FREE SELF-LEVELING EPOXY COATING

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

Description

EP30SL is a two-component, solvent-free, colored, 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

- Realized with special resins and high resistance mineral charges
- Excellent flexibility, hardness, wear resistance and wheeled-traffic resistance
- Good chemical resistance, to acid and alkaline solutions, detergents, fuels, and mineral, animal and vegetable oil and grease
- Available in the conductive type
- Also suitable to make multilayer flooring and high – solid coatings
- Application temperature +10°C to +30°C with relative humidity <70%

Fields of application

EP30SL improves the floor resistance and gives it a gloss surface finish. Therefore it is applied for high aesthetic value floors in houses, shopping centres, boutiques, and beauty salons.

This kind of material can also be used as mixed colours to obtain infinite designs. To obtain matt or glossy effect it is recommended to use **EPU C600** product.

Application guidelines

EP30SL can be applied with notched trowel or square trowel

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.

Product can be charged up to 100% by weight (calculated on component A) with quartz 0,1 – 0,3.

c) Application

Pour a bead of material and spread it with a notched or flat squeegee, to obtain an uniform design, otherwise use more colours to create a pattern or a mix design.

Multilayer application

After having mixed components A and B, add 30-50% of 0,1-0,3 quartz. Apply the first coat by trowel, then on the wet resin broadcast quartz of the appropriate granulometry (it depends on the desired final thickness). The following day remove the excess quartz and apply the second coat using the product without quartz. It is possible to even the product using a dry roller immediately after having used the trowel.

High – solid application

Apply the first coat by roller with a consumption of 250 – 400 g/m². The following day apply the same quantity in the same way. If necessary, it is possible to thin the product with 1-3% of **EPU EP1**.

Handling and storage

EP30SL 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	RAL	STANDARDS
POT LIFE AT 22°C	60 MINUTES	EN ISO 9514
DENSITY	1,24 +/- 0,05 kg/l	UNI EN ISO 2811-1
MIXING RATIO A/B	100 / 30	-
VISCOSITY AT 20°C	1400 +/- 300 mPa·s	UNI EN ISO 2555
WEAR RESISTANCE-BCA	0 µm	EN 13892-4
NON-VOLATILE-MATTER CONTENT	ca. 99%	EN ISO 3251
SHORE D HARDNESS	>85	EN ISO 868
CURE RATE Touch dry / Complete curing	5h / 10 days	77°F / 25°C
COMPRESSIVE STRENGTH	>85 MPa	EN 13892-2
FLEXURAL STRENGTH	>30 MPa	EN 13892-2
ABRASION RESISTANCE	<100 mg	EN ISO 5470-1 Wheel H22 1000g, 1000 cycles
IMPACT RESISTANCE	20 N·m	EN ISO 6272
BOND STRENGTH	>3,0 MPa	EN 13892-8
SLIP/SKID RESISTANCE (Dry)	66	EN 13036-4
*SURFACE ELECTRICAL RESISTANCE	0,1 – 1,0 MΩ	UNI 8298-10
*CROSSWISE ELECTRICAL RESISTANCE	0,03 – 0,5 MΩ	
RESISTANCE TO SEVERE CHEMICAL ATTACK	SULPHURIC ACID 20% - CLASS II HYDROCARBON MIXTURE – CLASS I SODIUM HYDROXIDE 20% - CLASS II SURFACTANTS – CLASS II	EN 13529

*Only conductive type

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	C80	EN 13892-2
Flexural strength	F30	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	CR11 (Class II), CR10 (Class II), CR4 (Class I), CR14 (Class II),	EN 13529

CR4: 60% toluene, 30% xylene, 10% methylnaphthalene

CR10: Sulphuric acid at 20%

CR11: Sodium hydroxide at 20%

CR14: Surfactants

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