

EPU PU30SL

POLYURETHANE ELASTIC SELF-LEVELING COATING

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

Description

PU30SL is an elastic, two part, solvent free, self leveling polyurethane resin system. For interior use only.

Features

- Excellent self-leveling properties
- Elastic/flexible coating
- Excellent resistance to thermal variations
- Excellent resistance to rubber-wheeled traffic
- Application temperature +10°C to +30°C with relative humidity <70%

Fields of application

PU30SL particularly suitable for all commercial and public buildings including healthcare facilities, schools, retail spaces, laboratories, parking lots, nursing facilities, showrooms, lobbies, museums and office space. To obtain satin or matt effect, its recommended to apply extra layer of **EPU C600** product.

Application guidelines

PU30SL can be applied with notched 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.

c) Application

Pour a bead of material and spread it with a notched or flat squeegee, to obtain an uniform layer.

Handling and storage


PU30SL 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	30 MINUTES	EN ISO 9514
DENSITY	1,40 +/- 0,05 kg/l	UNI EN ISO 2811-1
MIXING RATIO A/B	100 / 26	-
VISCOSITY AT 20°C	1900 +/- 400 mPa·s	UNI EN ISO 2555
BOND STRENGTH	>1,5 MPa	EN 13892-8
COMPRESSIVE STRENGTH	>15 MPa	EN 13892-2
FLEXURAL STRENGTH	>3,5 MPa	EN 13892-2
WEAR RESISTANCE BCA	20µm	EN 13892-4

IMPACT RESISTANCE	10 N·m	EN ISO 6272
RESISTANCE TO TEARING	20 kN/m	EN 12310-2
ELONGATION AT BREAK	30 +/- 5%	EN 12311-2
LOAD AT BREAK	12 MPa	EN 12311-2
SHORE HARDNESS		EN ISO 868
A	97	
D	70	
CURE RATE Touch dry / Complete curing	3h / 7 days	77°F / 25°C

		
PERFORMACES IN COMPLIANCE TO CERTIFICATION CE EN 13813		
Product type 3004		DoP 146
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	C16	EN 13892-2
Flexural strength	F3	EN 13892-2
Wear resistance	AR 0,5	EN 13892-4
Bond strength	B1,5	EN 13892-8
Impact resistance	IR10	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

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