

EPU C600

TRANSPARENT, ALIPHATIC, POLYURETHANE FINISH

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

Description

C600 is a two-component, modified aliphatic transparent urethane coating. It is used as a finishing coat on existing resin surfaces, concrete surfaces and wood surfaces. Can be used for 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.

C600 can come also in coloured version.

Features

- Resistant to water, detergents, oils, fuels
- Hard glossy or matt surface resistant to impact and abrasion
- No yellowing and UV resistance
- Good resistance to diluted acid and alkaline solutions
- Application temperature +5°C to +40°C

Fields of application

C600 improves the floor resistance to traffic and scratches and gives it a gloss, matt or satin surface finish.

Application guidelines

C600 can be applied with roller or spray.

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

Apply **C600** with a short roller or sprayer.

Apply the product pure or thinned with 2-5% **EPU PU1**, by brush or roller.

For airless spray gun application thin the product with 5% **EPU PU1**, and use 0,015 – 0,017 inches nozzles and 180 bar pressures.

Handling and storage

C600 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			
VERSION	GLOSSY	MATT	-
COLOR	Transparent	Transparent	STANDARDS
POT LIFE AT 22°C	>45 MINUTES	>45 MINUTES	EN ISO 9514
DENSITY	1,02 +/- 0,05 g/l	1,02 +/- 0,05 g/l	UNI EN ISO 2811-1
MIXING RATIO A/B	100 / 36	100/30	-
VISCOSITY AT 22°C	60 +/- 10 seconds	110 +/- 20 seconds	UNI EN ISO 2431 Cup Ø4
NON-VOLATILE-MATTER CONTENT			EN ISO 3251
By weight	55%	54%	
By volume	49%	52%	
WEAR RESISTANCE-BCA	< 50µm		UNI EN 13892-4
BOND STRENGTH	>3,5 MPa		UNI EN 13892-8
IMPACT RESISTANCE	20 N·m		UNI EN ISO 6272
SLIP/SKIP RESISTANCE Dry	59		UNI EN 13036-4
ABRASION RESISTANCE	<120 mg		UNI EN ISO 5470-1 Wheel H22 1000g, 1000 cycles
ABRASION RESISTANCE	<100 mg		ASTM D4060 Wheel CS10 1000g, 1000 cycles
CURE RATE Touch dry / Complete curing	5h / 10 days		77°F / 25°C

CE		
PERFORMACES IN COMPLIANCE TO CERTIFICATION CE EN 13813		
Product type 3112		DoP 115
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	NPD	EN 13892-2
Flexural strength	NPD	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

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