

EPU C350

ONE-COMPONENT POLYURETHANE MOISTURE CURING COATING

In compliance with the requirements of the 1504-2 EUROPEAN STANDARD: Product for the protection against the risk of penetration 1.3, moisture control 2.2, resistivity increase 8.2.

Description

C350 is a one-component, urethane coating. It is used as a waterproofing protective product for horizontal and vertical surfaces.

Features

- Fluid product, applicable with roller, brush, spray
- Waterproof
- Excellent elasticity, even at low temperatures
- Resistant to UV rays, abrasion, bad weather
- Good crack resistance
- Application temperature +5°C to +35°C with relative humidity <80%

Fields of application

C350 is Waterproofing protective product for roofs, stairs, balconies, bridges, terraces, etc. Can be use to make waterproofing with e.g. nonwoven fabric membrane.

Application guidelines

C350 is a one-component urethane resin product. It can be applied with roller, spray or brush.

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

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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

C350 is a mono-component product, ready to use, after mixing with low rate drill.

c) Application

Apply **C350** with a short roller or sprayer.

Handling and storage

C350 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	Grey, White, Red, other on request	STANDARDS
DENSITY	1,57 +/- 0,05 kg/l	UNI EN ISO 2811-1
VISCOSITY AT 22°C	4500 +/- 900 mPa·s	ISO 2555
NON-VOLATILE-MATTER CONTENT	90 +/- 2%	EN ISO 3251
IMPACT RESISTANCE	4 N·m	EN ISO 6272
ELONGATION AT BREAK	>450%	EN 12311-2
SHORE A HARDNESS	>70	EN ISO 868
UV RESISTANCE (INVE 2000) P-500W lamp	Excellent 50 hours at 70°C	
BOND STRENGTH BY PULL-OFF	>4,0 MPa	EN 1542
CRACK BRIDGING Method A, static Method B, dynamic	A5 (23°C) >B4.1 (23°C)	EN 1062-7
HYDROLYSIS 30days at 55°C	Excellent	
CARBON DIOXIDE PERMEABILITY	S _D > 50m	EN 1062-6
WATER VAPOUR PERMEABILITY	S _D < 5m	EN ISO 7783-2
LIQUID WATER PERMEABILITY	w < 0,1 kg/m ² x h ^{1/2}	EN ISO 1062-3
LIQUID-APPLIED WATER IMPERMEABLE PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES Initial adhesion Adhesion after water contact	>0,5 MPa >0,5 MPa	UNI EN 14891
CURE RATE Touch dry / Complete curing	7-9h / 10 days	77°F / 25°C

CE		
PERFORMACES IN COMPLIANCE TO CERTIFICATION CE EN 1504-2		
Product type 1808		DoP 129
Characteristics	Product performance	Test Method
Reaction to fire	F	EN 13501-1
CO ₂ permeability	S _D > 50m	EN 1062-6
Liquid water permeability	< 0,1 kg/m ² x h ^{1/2}	EN ISO 1062-3
Water vapour permeability	Class I	EN ISO 7783 - 2
Bond strength by pull off	>2,0 N/mm ²	EN 1542
Crack bridging	A5 (23°C) >B4.1 (23°C)	EN 1062-7
Impact resistance	Class I	EN ISO 6272-1
Temperature shock	NPD	EN 13687-5
Abrasion resistance	<3000 mg	EN ISO 5470-1
Hazardous substances	The hardened product does not release hazardous substances	
Linear shrinkage	NPD	EN 12617-1
Coefficient of thermal expansion	NPD	EN 1770
Resistance to severe chemical attack	NPD	EN 13529
Cross-cut test	NPD	EN ISO 2409
Thermal compatibility	NPD	EN 13687-1
Resistance to liquids	NPD	EN ISO 2812-1
Slip/Skip resistance	NPD	EN 13036-4
Exposition to artificial atmospheric agents	No blistering, no cracking, no opacyfication, no chalking	EN 1062-11
Electrical resistance	NPD	EN 1081
Compressive strength	NPD	EN 12190
Compatibility on wet concrete	NPD	EN 13578

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