

# EPU C136

## TWO-COMPONENT, ALIPHATIC, POLYURETHANE COATING

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

### Description

**C136** is a two-component, aliphatic urethane coating. It is used as a finishing coat on existing resin, cement, wooden 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.

### Features

- Resistant to water, detergents, oils, fuels, salts, cigarette burns
- High adhesion, wear resistance and hardness
- Easy cleanliness and maintenance
- Resistant to impact and abrasion
- No yellowing and UV resistance
- Conductive version available
- Application temperature +5°C to +40°C with relative humidity <70%

### Fields of application

**C136** is suitable as finish coat for epoxy, polyurethane and concrete flooring. Improves the floor resistance to traffic and scratches and gives it a gloss or matt surface finish.

### Application guidelines

**C136** is a two-component urethane resin product. It 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**

Apply **C136** with a short roller or sprayer.

Depending on the application, product can be thinned with 3-5% **EPU PU1**.

### **Handling and storage**

**C136** 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	120 +/- 15 MINUTES	EN ISO 9514
DENSITY	1,30 +/- 0,05 kg/l	UNI EN ISO 2811-1
MIXING RATIO A/B	100 / 25	-
VISCOSITY AT 22°C	42 +/- 15 seconds	ISO 2431 Cup Ø6
NON-VOLAYILE-MATTER CONTENT By weight By volume	65 +/- 5% 50 +/- 5%	EN ISO 3251
ABRASION RESISTANCE	16 mg	EN ISO 5470-1 Wheel H22 1000g, 1000 cycles
SLIP/SKID RESISTANCE	54	EN 13036-4
IMPACT RESISTANCE	4 N·m	EN ISO 6272
WEAR RESISTANCE BCA	0µm	EN 13892-4
BOND STRENGTH	>3,0 MPa	EN 13892-8
EXPOSITION TO ARTIFICIAL ATMOSPHERIC AGENTS	No blistering, No cracking	UNI EN 1062-11
WATER VAPOUR TRANSMISSION PROPERTIES	0,03 µg / (m <sup>2</sup> ·h·Pa)	EN 12086
SURFACE ELECTRICAL RESISTANCE*	12MΩ	UNI 8298-10
CURE RATE Touch dry / Complete curing	2-3h / 10 days	77°F / 25°C
RESISTANCE TO SEVERE CHEMICAL ATTACK	SULPHURIC ACID 20% - CLASS I HYDROCARBON MIXTURE – CLASS II SODIUM HYDROXIDE 20% - CLASS II SURFACTANTS – CLASS II	EN 13529

\*Only conductive version

<b>CE</b>		
<b>PERFORMACES IN COMPLIANCE TO CERTIFICATION CE EN 13813</b>		
<b>Product type 3100</b>		<b>DoP 116</b>
<b>Characteristics</b>	<b>Product performance</b>	<b>Test Method</b>
Reaction to fire	F <sub>FL</sub>	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	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	CR4 (Class II) CR11 (Class II) CR10 (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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