

POLICONCRET

POLYURETHANE-CEMENT COATING CERTIFIED BY HACCP

IN COMPLIANCE WITH THE REQUIREMENTS OF THE 1504-2 EUROPEAN STANDARD:
product for chemical resistance 6.1 (C).

Features

- Product in compliance with HACCP instructions: certificate number I-PE-863-ITA-1-RG-01.
- Rapid curing even at relatively low temperatures.
- Matt finish.
- Excellent chemical resistance.
- High wear resistance.
- Good mechanical resistance.
- Available in the antistatic and conductive version.
- Application temperature from +5°C to +30°C.
- Resistance to temperature from -20°C to +90°C, for limited periods up to +150°C in air.

Field of use

- **POLICONCRET** is suitable for floors subjected to heavy loads and medium mechanical and chemical stress, like those of warehouses, food/chemical/pharmaceutical industries, laboratories, garages, cold stores.
- **POLICONCRET TOP** is suitable as finish for multilayer systems.

Application

Support preparation

Support preparation is fundamental, thus the surface to be treated must be free of any pollutant, dry, coherent and must have a tear resistance of at least 1,5 MPa. In any case it is necessary, depending on the type of surface, to make a preparation of the flooring by sand-blasting, milling, shot peening, smoothing or sanding.

Free and stagnant water coming from the foundation, from previous washing processes or from meteorological events must be removed or dried.

Before the application of **POLICONCRET**, in proximity of drain covers, side-walls, passages from one room to another etc., some cuts will have to be done on the flooring to allow the product to mechanically “cling” on it.

Primer

Choose the appropriate primer depending on the surface: **EPOXCEMENT TIXO** for moist substrates, **RESINA 530** for dry supports (R.H. max 4 %). Minimum consumption about 500 g/m². On the fresh primer broadcast 0,3-0,8 mm quartz consuming about 1-2 kg/m².

Conductive primer

Apply with a roller 200 g/m² of **PRIMER CONDUTTIVO**. As soon as it has hardened, if necessary, apply the copper bars network. Proceed then with a second 200 g/m² layer of **PRIMER CONDUTTIVO**, covering the bars to fix them mechanically.

If necessary, it is possible to smooth the surface with **PRIMER CONDUTTIVO** loading it in a 1:1 ratio with carborundum 0,1-0,2 mm.

Product preparation

Three-component product to be mixed thoroughly at the moment of employment with an helicoidal stirrer with a low number of cycles. It must not be heated.

Pour component B into component A, mix for a minute until an homogeneous mass without lumps and with a uniform colour is obtained.

Pour component C while still stirring and mix to complete homogenization for about five minutes, until a mixture without lumps is obtained.

Application

POLICONCRET can be applied by roller, brush, steel trowel, distributing the product uniformly.

Immediately after the application use the spiked roller many times.

POLICONCRET TOP can be applied in one or two coats depending on the desired finish, with a consumption of 300-600 g/m².

Tools cleaning

The tools must be cleaned with **DILUENTE PU1** after use.

Technical data

Colour	RAL colours		-
Density POLICONCRET SL/MD/DL/HF POLICONCRET TOP	1,90-2,00 ± 0,05 kg/l 1,47 ± 0,05 kg/l		EN ISO 2811-1
Pot life at 22°C	20 minutes		EN ISO 9514
Theoretical consumption	POLICONCRET SL	6 kg/m ²	-
	POLICONCRET MD	9 kg/m ²	
	POLICONCRET DL	12-15 kg/m ²	
	POLICONCRET HF	12-18 kg/m ²	
Theoretical thickness	POLICONCRET SL	3-4 mm	-
	POLICONCRET MD	4-6 mm	
	POLICONCRET DL	6-7 mm	
	POLICONCRET HF	6-9 mm	
Non-volatile-matter content	> 99,9 %		EN ISO 3251
Impact resistance	> 10 N·m		UNI EN ISO 6272-1
Bond strength	> 3,0 MPa		UNI EN 13892-8
Wear resistance-BCA	< 30 µm		UNI EN 13892-4

Compressive strength	> 50 MPa	UNI EN 13892-2	
Flexural strength	> 15 MPa	UNI EN 13892-2	
Modulus of elasticity	1530 MPa	EN 13412	
Resistance to temperature shock	> 3,5 MPa	EN 13687-5	
Liquid water permeability	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0.5}$	EN 1062-3	
Electrical resistance*	$R < 10^6 \Omega$	UNI EN 1081	
Resistance to severe chemical attack	Sulphuric acid 20 % Sodium hydroxide 20 % Sodium chloride 20 % Lactic acid 10 %	Class II Class II Class II Class II	UNI EN 13529

* Only conductive type

Curing

At 22°C, 50 % R.H.	
- Light traffic	6-8 hours
- Carriageable with light weight	24 hours
- Carriageable with medium weight	48 hours
- Complete curing	5-7 days

Storage

The product in the original sealed packaging, stored in a dry and sheltered place at a temperature comprised between +5°C and +35°C, is preserved for:


12 months component A, 12 months component B, 6 months component C.

Safety

In the application of this product it is advisable to use goggles, rubber gloves and all the PPE required by the laws on the use of chemical substances.

For all the additional information consult the material safety data sheet of the product.



		
PERFORMACES IN COMPLIANCE WITH CERTIFICATION CE EN 1504-2		
Product type 3202		DoP 141
Characteristics	Product performance	Test Method
CO ₂ permeability	NPD	EN 1062-6
Water vapour permeability	NPD	EN ISO 7783-2
Liquid water permeability	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0.5}$	EN ISO 1062-3
Bond strength by pull-off	NPD	EN 1542
Crack bridging	NPD	EN 1062-7
Impact resistance	Class II	EN ISO 6272-1
Temperature shock	$> 2,0 \text{ N/mm}^2$	EN 13687-5
Abrasion resistance	NPD	EN ISO 5470-1
Resistance to severe chemical attack	CR10 (Class II), CR11 (Class II), CR12 (Class II), Lactic acid (Class II)	EN 13529
Hazardous substances	The hardened product does not release hazardous substances	
Reaction to fire	F	EN 13501-1
Linear shrinkage	NPD	EN 12617-1
Coefficient of thermal expansion	NPD	EN 1770
Cross-cut test	NPD	EN ISO 2409
Thermal compatibility	NPD	EN 13687-1
Resistance to liquids	NPD	EN ISO 2812-1
Slip/skid resistance	NPD	EN 13036-4
Exposition to artificial atmospheric agents	NPD	EN 1062-11
Electrical resistance	NPD	EN 1081
Compressive strength	NPD	EN 12190
Compatibility on wet concrete	NPD	EN 13578

CR10: sulphuric acid at 20 %
 CR11: sodium hydroxide at 20 %
 CR12: sodium chloride at 20 %

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