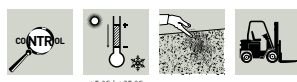


CERMICOAT PU



One components, polyurethane based, final coat protecting & coating material



- *The product has mechanical and abrasion resistance.*
- *Easily cleaned, resistant against scratches, hygienic.*
- *The product is produced as mat, glossy or semi-glossy coats.*
- *Used in indoor areas.*

DESCRIPTION

One components, polyurethane based, aromatic, solvent containing, colored, final coat for protection and coating with mat, glossy or semi-glossy finishes. The product has a high abrasion and chemical resistance. Abrasion resistance and easy cleaning are the most important characteristics.

WHERE TO USE

- Used as final coat or intermediate coat of protection and coating in factories, warehouses, shopping centers, workshops, aircraft hangars, schools, hospitals, pharmaceutical sector, food sector, laboratories, parking areas and similar places.
- **CERMICOAT PU** can also be used as final coat on epoxy or polyurethane based coatings to create chemical and abrasion resistance and to have a mat, glossy or semi-glossy finishes in desired RAL colors.

APPLICATION

a) Surface Quality

- The concrete surface must be clean and robust and have adequate compression resistance (not less than 25 N/mm²), with a tensile resistance (pull off) of at least 1,5 N/mm².
- Consequently, the concrete surface for coating must comply with not less than C25 or preferably C30 - C35 standard.
- Concrete to be coated must be strong and must not move.
- The surface must be clean and dry, and freed of all foreign objects such as soil, grease or surface curing materials.
- The unstable layer of the surface (layer of grout) must always be removed. (by Shot-Blast, Rota Tiger, etc.)
- The grout and/or concrete to be coated must rest firmly on the base and must not move.
- The substrate must absolutely not be surface hardened concrete.

b) Surface Preparation

- All concrete surfaces must be prepared to have a clear porosity by removing the cement grout using abrasive equipment.
- Remove weak concrete and fully expose blowholes and pinholes.
- Before application of the product, remove all dust, loose and detached parts from the surface using a brush and/or a vacuum cleaner.
- Roughness of the surface must be like thin plaster obtained with helicopter landing finish.
- Cut and clean cracks in the concrete in V shape, and clean the dilatation joints from particles.
- Use **CERMIPRIME EP** + Quartz mixture for repairing the surface, filling blowholes/pinholes, repairing cracks and filling dilatation joints.

METHOD OF APPLICATION

- First mix thoroughly components A and B separately on their own. Then add component B into component A and mix for at least 3 minutes until the mixture is homogenous. (Ratio of 71,5/28,5 by weight) Use electrical mixers of at least 300-400 rpm for mixing. Apply the mixture so obtained to the surface by notched trowels and finish with rollers.
- Apply with airless machines to obtain a homogenous surface.

CONSUMPTION

Approximately 0,200-0,300 kg/m² for each coat.

PACKAGING

20 kg tins

STORAGE

The product may be stored for 12 months in sealed original packaging at a cool and dry place.

SAFETY MEASURES

- Due to irritating effect of uncured materials, avoid contact of components with skin or eyes. In case of any contact, wash skin or eyes with plenty of water and soap and seek medical assistance in cases of severe exposure.
- Always wear gloves and goggles during application. Avoid contact of uncured materials with foods.
- It is hazardous to approach to work area with open flame.
- Store at places out of reach of children.
- Safety Data Sheets of the materials may be provided from the technical department.
- Completely cured materials are totally safe.



TECHNICAL SPECIFICATIONS

Chemical Structure:	Polyurethane		
Density:	~1,35 kg/l (at +23 °C)		(DIN EN ISO 2811-1)
Solids Content:	~ 85% (by volume) / ~ 90% (by weight)		
Mechanical/Physical Properties:			
Compression Strength	Mortar: ~ 60 N/mm² (28 days / +23 °C)	(EN 196-1)	
Bending Strength	Mortar: ~ 30 N/mm² (28 days / +23 °C)	(EN 178)	
Adhesion Strength	> 1,5 N/mm² (pull off from concrete)	(ISO 4624)	
Abrasion Strength	40 mg (CS 10/1000/1000) 8 days / +23 °C	(DIN 53109 Taber Abrasion Test)	
Shore D Hardness	70 (7 days / +23 °C)	(DIN 53505)	
Conditions of Application:			
Surface Temperature	Not less than +10 °C / Not more than +30 °C		
Environment Temperature	Not less than +15 °C / Not more than +40 °C		
Surface Humidity Ratio	Humidity ratio ≤ %4 Test method: Measurement with HUMIDIMETER and THERMOMETER.		
Relative Humidity:	Not more than 80%		
Condensation:	No condensation must occur on the surface. A film of humidity forming on the surface due to condensation prevents adhesion and the coating will be peeled off.		
Application Time:	Temperature +10 °C +20 °C +30 °C	Time ~ 60 minutes ~ 30 minutes ~ 15 minutes	
Life of Mixture:	Temperature +23 °C	Time ~ 30 minutes	
	NOTE: These tests have been performed under laboratory conditions using 200 g mixture of materials. Times are given approximate durations and will be affected by varying ambient conditions, and particularly with temperature and relative humidity.		
Waiting Time Between Coats:	Surface Temperature +20 °C	Not Less Than 10 hours	Not More Than 48 hours
CAUTION	For systems requiring several coats, ensure that the waiting time before applying the second coat is not more than 48 hours; otherwise the surface must be roughened if the specified time is exceeded.		

Note: The initial controls of our product are made during the production phase. We guarantee the stability of our products' quality. All recommendations and instructions on the technical sheet are generally based on our experience. Please contact us for applications on special surfaces not mentioned in the technical sheet. Our company reserves the right to update the information on the technical sheet in the case of technical necessities without prior notice. This new catalogue supercedes the previous editions.