

CP-Synthofloor BETA 8016 is a 2-component special epoxy resin - medium viscosity, colorless. The product is suitable as a primer / key coat on cementitious surfaces.



RESISTANCE

- Water/sewage
- Alkalis
- Mineral oil
- Saline solutions
- Diluted acids
- Lubricants and fuels
- Dry temperature max. 80 °C
- Wet temperature short-term max. 60 °C



FEATURES AND BENEFITS

- Very high chemical resistance
- Very high mechanical resistance
- Good adhesion properties and wetting characteristics
- Medium viscosity
- Will discolour if exposed to UV
- Inert and harmless once cured

TECHNICAL DATA

Color	Colorless
Volume solids	Approx. 100 %
Viscosity (23 °C)	Approx. 650 mPa·s ± 150
Compressive strength (DIN EN ISO 604)	60-90 MPa (depending on filler ratio)
Tensile strength (DIN EN ISO 178)	30 MPa
Water absorption	< 1.5 %
First contact with water	After 24 hours (23 °C)
Density	Approx. 1.50 g/cm ³

APPLICATION DATA

Application by airless spraying	Possible, please contact Chesterton International GmbH for specific application advice.
Application by roll or squeegee	Typical application method with hand tools. You can find more information on page 3.
Mixing ratio	5 : 1 by weight
Substrate temperature	Minimum 10° C up to maximum 30 °C
Material temperature	15 °C-25 °C
Maximum relative humidity of air	At 10 °C: 75 % (dew point + 3°C) At > 23 °C: 85 % (dew point + 3°C)
Pot life	Approx. 50 minutes at 15 °C / 40 minutes at 23 °C / 20 minutes at 30 °C material temperature - waiting time under continuous pressure may reduce potlife!
Theoretical consumption	0.4-0.5 kg/m ² as primer, always sprinkle with clean, dry quartz sand 0.4-0.8 mm (approx. 0.5 kg/m ²)

CURING TIMES

Substrate temperature	Foot traffic	Mechanical resistance	Chemical resistance	Duration between applications (if sprinkled with quartz sand, the duration will increase)	
				Minimum	Maximum
10 °C	24 hrs	72 hrs	7 days	24 hrs	36 hrs
23 °C	16 hrs	48 hrs	5 days	12 hrs	24 hrs
30 °C	12 hrs	24 hrs	4 days	6 hrs	24 hrs

All above values are approximate and may be used as a guideline for specifications. Consumptions vary according to conditions.

PACKAGING AND STORAGE

12 months, closed in original drums under dry conditions and a temperature of 15-25 °C. At temperatures < 10 °C crystallisation may occur. Please consult us.

Packaging	30 kg-pails
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QUALITY ASSURANCE AND INSPECTION

To ensure a continuous quality of the product, the quality assurance and inspection plan of Chesterton International GmbH has to be considered. Recommendations for qualified test control units are also available.

HEALTH AND SAFETY

Observe the precautionary notices on the container label, and read the Material Safety Data Sheet before use. The product is intended for use by properly qualified professional applicators in industrial conditions. The product is flammable and should be kept away from sparks, open flames, and other sources of ignition. Smoking is prohibited in the application area. Wear suitable respiratory equipment and apply in well ventilated areas. Avoid contact with skin and eyes.

DISCLAIMER

All technical information in this Product Data Sheet is signified as material description and based on laboratory tests and practical experiences under normal conditions. During individual use, actual measured data may vary due to circumstances beyond our control. In particular, the recommendations regarding the application and use require the proper storage and treatment of our products. Due to differences in materials, substrates and real site conditions Chesterton International GmbH does not assume any warranty or liability for application results or fitness for a particular purpose, of any legal relationship whatsoever, neither from this information, nor from any given recommendations, or from any other oral advice. The user of the product must check the product's suitability for the intended application and purpose. Chesterton International GmbH reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our general terms and conditions of sale and delivery. The most recent issue of the Product Data Sheet has to be considered, please ask always for the current version.

1. SURFACE PREPARATION

Prior to the application the substrate must be prepared by mechanical means using qualified equipment e.g. Blastrac® shot blasting.

Minimum requirements:

- free of cement laitance, dust, oil, fat and other contaminants
- open textured, absorbent surface
- pull off strength min. 1.5 N/mm²
- concrete residual moisture max. 4 %

On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, CP-Synthofloor 8016 must be used. See also "general preparation and application instructions" sheet.

2. APPLICATION

Prior to mixing, the temperature of the components must be between 15-25 °C. Mix the components in the correct ratio using a suitable low speed electric mixer (300-400 rpm) for at least 3 minutes or until a completely homogeneous mixture has been achieved. Put the mixed material into a clean container and mix again for at least 1 minute more. After mixing, fillers can be added whilst stirring constantly. Distribute the mixture immediately onto the surface. Depending on the condition of the substrate we recommend applying a primer and a key coat or a filled primer. Use a rubber squeegee to spread the primer evenly and finish with a paint-roller. The key coat (1 : 0.3 up to 1 : 0.7 w/w) can be formulated using CP-Synthofloor BETA 8016 and clean, dry, tempered quartz sand. The mixture should be applied by notched trowel or scraper. The applied coating must always be lightly sprinkled with clean, dry quartz sand Ø 0.4-0.8 mm (approx. 0.5 kg/m²). Prior to, during and after the application the temperature the substrate must be at least +3 °C above the current dew point temperature.

Primer: approx. 0.4-0.5 kg/m²

Key coat: 1 : 0.3 up to 1 : 0.7 filled with clean, dry quartz sand . Ø 0.1-0.3 mm.

Consumption: approx. 1 kg/m² resin plus clean, dry quartz sand.

3. SYSTEM DESCRIPTION

The following figures are for ambient and surface temperatures of 15-23 °C. Both high and low temperatures will influence the consumption per m².

CP-Synthofloor BETA 8016 can be used in various ways. The most common applications are:

Primer/key coat: As primer apply CP-Synthofloor BETA 8016 using approx. 0.4-0.5 kg/m² and lightly sprinkle the surface with clean, dry quartz sand Ø 0.4-0.8 mm (approx. 0.5 kg/m²). Depending on substrate conditions apply an additional key coat with CP-Synthofloor BETA 8016 (maximum filled up to 1 : 0.7 with suitable quartz sand) and sprinkle the surface lightly with clean, dry quartz sand Ø 0.4-0.8 mm (approx. 0.5 kg/m²).

N/B: UV radiation cause discoloration.

4. CHEMICAL RESISTANCE

Depending on the requirements we recommend testing the chemical resistance.

5. PACKAGING

30 kg - sets

25 kg - Part A

5 kg - Part B

6. HEALTH AND SAFETY

GISCODE: RE 1 Avoid inhalation of the vapours and contact with skin. Wear suitable protective clothing, gloves and eye/face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

7. EU DIRECTIVE ("DECOPAINT-RL")

Acc. to the EU Directive 2004/42/EG the maximum allowed content of VOC (Product category All / j / type WB) is 500 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.