

CP-Synthofloor 8010 is a 2-component special epoxy resin, medium viscosity, colorless, unfilled. The product is for damp concrete surfaces, "green" concrete and concrete surfaces where rising damp is expected. It is suitable as primer and key coat.



RESISTANCE

- Water / sewage
- Alkalis
- Mineral oil
- Saline solutions
- Diluted acids
- Lubricants and fuels (incl. aviation fuel)
- Mastic asphalt up to +250 °C
- Rising damp



FEATURES AND BENEFITS

- Very deep penetration
- Fast curing
- Excellent adhesion between the substrate and subsequent coats
- Resistant to thermal deterioration
- Thermal resistant
- Very high mechanical resistance
- Resistant to mastic asphalt up to +250 °C
- Inert and harmless once cured

TECHNICAL DATA

Color	Clear
Volume solids	Approx. 100 %
Viscosity	Approx. 700 mPa·s ± 100 (23 °C)
Compressive strength (DIN EN ISO 604)	60-90 MPa (depending on filler ratio)
Tensile strength (DIN EN ISO 178)	> 30 MPa
Water absorption	< 1.0 %
Shore D-hardness (DIN EN ISO868)	> 80
Glass transition temperature	> 50 °C
First contact with water	After 24 hours (23 °C)
Density	Approx. 1.10 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	2,63 : 1 by weight
Substrate temperature	Minimum 8 °C up to maximum 30 °C
Material temperature	15 °C-25 °C
Maximum relative humidity of air	At 8 °C: 75 % (dew point + 3 °C) At > 23 °C: 85 % (dew point + 3 °C)
Potlife	Approx. 35 minutes at 15 °C / 25 minutes at 23 °C / 15 minutes at 30 °C material temperature - waiting time under continuous pressure may reduce potlife!
Theoretical consumption	400-500 g/m ² with intermediate broadcasting with dry quartz sand Ø 0,4-0,8 mm (ca. 0,5 kg/m ²). We recommend to apply 2 coats.

CURING TIMES

Substrate temperature	Foot traffic	Mechanical resistance	Chemical resistance	Duration between applications (if sprinkled with quartz sand, the duration will increase)	
				Minimum	Maximum
8 °C	24 hrs	48 hrs	5 days	16 hrs	36 hrs
23 °C	12 hrs	16 hrs	3 days	6 hrs	24 hrs
30 °C	6 hrs	12 hrs	2 days	3 hrs	12 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	25 kg-pails, 200 kg-barrel, 1000 kg-container
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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. 6 %
- substrate temperature > 8°C

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 : 0.8 up to 1 : 1 w/w) and the filled primer (1 : 1 up to 1 : 2 w/w) can be formulated using **CP-Synthofloor 8010** 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. 400-500 g/m²

Key coat: 1 : 0.8 up to 1 : 1 filled with clean, dry quartz sand . Ø 0.1-0.3 mm. Consumption: approx. 0.75 kg/m² resing plus clean, dry quartz sand.

Damp concrete: The damp concrete surfaces must be free of standing water. It must be ensured that there is no water on top of the concrete or in the pores. On concrete substrates where rising damp is evident, always apply a second coat of **CP-Synthofloor 8010**.

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.

Primer / seal coat: As primer apply **CP- Synthofloor 8010** with approx. 400-500 g/m² and sprinkle with clean, dry quartz sand Ø 0.4-0.8 mm (approx. 0.5 kg/m²). After curing, seal the surface with a second coat of **CP-Synthofloor 8010**, but without sprinkle quartz sand.

Primer / key coat: As primer apply **CP- Synthofloor 8010** using approx. 400-500 g/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 primer or a key coat with **CP- Synthofloor 8010** and sprinkle the surface lightly with clean, dry quartz sand Ø 0.4-0.8 mm (approx. 0.5 kg/m²).

Important: The priming and sealing work may only be carried out at constant or falling temperatures; otherwise blistering and consequent leakage can occur. The use of the product and the expected wear and tear will determine the choice of fillers.

N/B: UV radiation cause discolouration.

4. PACKAGING

25 kg - sets	18.12 kg - Part A	6.88 kg - Part B
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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.

6. 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.