

CP-Synthofloor 8860 LS-AS is a 2-component epoxy coating with high electrostatic conductivity, colored water-based, practically emission-free



PROPERTIES

- electrically highly conductive
- resistance average value 1 - 5 x 10³ Ω
- slight odour
- easy to apply
- economical
- inert and harmless once cured

TECHNICAL DATA

Color	black
Volume solids	approx. 45 %
Viscosity (23 °C)	approx. 800 mPa·s ± 250 (without water)
Density (23 °C)	approx. 1.10 g/cm ³

APPLICATION

CP-Synthofloor 8860 LS-AS is a conductive intermediate coating used in conjunction with the electrostatically conductive Synthofloor-, Proguard- and Ceramic-Polymer-Systems.

When using **CP-Synthofloor 8860 LS-AS** in confined areas ensure that there is adequate ventilation. The water in the product must be provided every opportunity to evaporate / dissipate. Insufficient ventilation may have an affect on the curing.

N/B: To achieve the viscosity required for the application, 10 % of potable water must be added whilst mixing constantly!

APPLICATION DATA

Application by roll	Typical application method with hand tools. You can find more information on page 3.
Mixing ratio A : B	100 : 350 by weight (1 : 3.5)
Substrate temperature	minimum 12 °C up to maximum 30 °C
Material temperature	15 °C - 25 °C
Maximum relative humidity of air	at 12 °C: 75 % (dew point +3 °C) at > 23 °C: 85 % (dew point +3 °C)
Pot life (12 °C / 23 °C / 30 °C)	approx. 50 minutes / 45 minutes / 30 minutes
Theoretical consumption	at least 0.1 - max. 0.13 kg/m ² plus 10 % water.

CURING TIMES

Substrate temperature	Foot traffic	Duration between applications (if sprinkled with quartz sand, the duration will increase)	
		Minimum	Maximum
12 °C	24 hrs	24 hrs	72 hrs
23 °C	12 hrs	12 hrs	48 hrs
30 °C	4 hrs	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

6 months, unopened in original drums under dry conditions and a temperature of 15 °C - 25 °C. At temperatures <15 °C crystallisation is possible. Please consult us.

Packaging	13.5 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 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 %

Depending on the condition of the substrate the surface must be made non-porous by the application of a primer and / or key coat using **CP-Synthofloor Beta 8016**. *On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, CP-Synthofloor 8010 must be used.*

On the prepared surface the connection to earth must be installed in accordance with the guidelines using spliced copper cable. The connection to earth must be installed within a radius of approx. 10 metres, which equates to every 20 metres. Areas that are separated by a joint must be connected by installing a loop. The connection to earth must be controlled and tested by qualified electricians. We recommend that the exact details with regard to the installation of the connection to earth are decided well before the start of the application. Ensure that the connection to earth has excellent adhesion to the coating surface. 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, 10 % potable water must be added whilst stirring constantly to achieve the required viscosity for the application!** Distribute the mixture immediately onto the surface. To apply **CP-Synthofloor 8860 LS-AS** use a suitable lambskin roller to create a thin and even thickness. A too thick coating and ponding water will affect the conductivity and cause cracking. Always ensure when applying **CP-Synthofloor 8860 LS-AS** that there is adequate ventilation. Due to the aqueous nature of the product, insufficient ventilation will prevent the evaporation of water, and therefore have an affect on the curing. **Once cured, the conductivity of the coating must be tested (100 volt measuring instrument).** Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

3. SYSTEM DESCRIPTION

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

Primer: CP-Synthofloor Beta 8016, clear / Consumption: approx. 0.3 - 0.5 kg/m², lightly sprinkle with clean, dry quartz sand Ø 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Key coat: CP-Synthofloor Beta 8016 + quartz sand / Consumption: approx. 0.6 kg/m² resin plus quartz sand, **no** quartz sand to be sprinkled on the surface.

Connection to earth: Must be installed and controlled by a qualified electrician (within a radius of approx. 10 m).

Conductive coating: CP-Synthofloor 8860 LS-AS, black / Consumption: approx. 0.1 - 0.13 kg/m² plus 10 % water.

AS- and ESD-coatings: all suitable AS- and ESD-systems can be applied to the conductive layer. Please ask for advice if necessary.

N/B: Whilst applying the self-levelling coating with a metal rake you have to avoid too heavy mechanical stress on the conductive coating layer. Otherwise discolouration is possible which will be visible at the surface. For application of the coating we recommend to use a rubber rake.

4. PACKAGING

13.5 kg - sets	3.0 kg - component A	10.5 kg - component B
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5. HEALTH AND SAFETY

GISCODE: RE20

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 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 140 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.