

CP-Synthofloor 8481 A.S. is a 2-component epoxy coating with electrostatic conductivity, coloured, contains special fillers free of nonylphenol



DESCRIPTION

- electrostatically conductive
- hard-elastic
- very high chemical resistance
- does not readily attract dirt / easy to clean
- high mechanical resistance
- high abrasion resistance
- inert and harmless once cured

RESISTANCE

- water / sewage
- washing agents / detergents
- saline solutions
- solvents (please consult us)
- diluted acids and alkalis
- lubricants and fuels
- wet temperature max. 40 °C
- wet temperature short-term max. 60 °C

APPLICATION

CP-Synthofloor 8481A.S. is an electrically conductive, hard-elastic industrial floor coating for production plants, sales areas and warehouses.

CP-Synthofloor 8481 A.S. is used as electrostatically topcoat on electrostatic conductive **Ceramic-Polymer- and Synthofloor-systems** that have been broadcast with anti-slip silicon carbide.

CP-Synthofloor 8481 A.S. is designed for use in storage and production facilities; also in areas where there is risk of explosion, due in the main to its high chemical and mechanical resistance, and obviously its conductivity.

Average value of electrical resistance RE: non-slip surface < 10⁹ Ω s

TECHNICAL DATA

Color	pebble grey approx. RAL 7032 (other colours are available on request) - due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -
Volume solids	approx. 100 %
Viscosity (23 °C)	approx. 1500 mPa·s ± 300
Compressive strength (DIN EN ISO 604)	> 35 N/mm ²
Shore D - hardness (DIN EN ISO 868)	approx. 60
Abrasion (1000 g / 1000 rev.) acc. to Taber	45 mg
Density (23 °C)	approx. 1.40 g/cm ³

APPLICATION DATA

Application by roll or squeegee	Typical application method with hand tools. You can find more information on page 3.
Mixing ratio A : B	100 : 20 by weight (5 : 1)
Pot life (12 °C / 23 °C / 30 °C)	approx. 60 minutes / 40 minutes / 25 minutes
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)
Theoretical Consumption	0.8 - 1.0 kg/m ²

CURING TIMES

Substrate temperature	Foot traffic	Mechanical resistance	Chemical resistance
12 °C	36 hrs	96 hrs	7 days
23 °C	24 hrs	48 hrs	5 days
30 °C	16 hrs	24 hrs	3 days

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 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.** As CP-Synthofloor 8860 LS-AS is a conductive intermediate coat it must be applied evenly. Prior to the application of CP-Synthofloor 8860 LS-AS, the connection to earth must be installed using spliced copper cable, and controlled in accordance with its function and adhesion. Once cured, carefully remove excess sand. 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. **Do not add any fillers, as they will impair the conductivity.** Distribute the mixed material immediately onto the surface. To apply CP-Synthofloor 8481A.S. as topcoat over an anti-slip surface that has been broadcast with silicon carbide, sharply scrape using a rubber rake the material over the top of the surface, and finish with a short-haired paint-roller. 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.

CP-Synthofloor 8481A.S. is suitable as an electrostatic conductive topcoat over silicon carbide that has been broadcast onto Ceramic-Polymer- and Synthofloor-systems.

Topcoat on intermediate SIC - surfaces:

CP-Synthofloor 8481A.S., pebble grey Consumption: approx. 0.8 kg/m². Non-slip classification approx. R11

N/B: Should flooring renovation take place or a subsequent coating be applied, there will be no conductivity properties. Please consult us.

N/B: UV radiation cause discolouration.

4. CLEANING

To clean the surface (manual or by machine) use only neutral or slightly alkaline (pH < 10) cleaning agents without preservation additives that will create a film. We highly recommend that you contact a specialist cleaning contractor.

5. CHEMICAL RESISTANCE

Acetic acid 5 %	resistant	Formic acid 2 %	resistant	Phosphoric acid 25 %	resistant
Acetic acid 10 %	short-term	Formic acid 5 %	short-term	Saline solution	resistant
Ammonia 5 %	resistant	Hydrochloric acid 10 %	resistant	Sodium lye 50 %	resistant
Boric acid 4 %	resistant	Hydrochloric acid 30 %	short-term	Sulphuric acid 40 %	short-term
Citric acid < 10 %	resistant	Lactic acid 10 %	resistant	Tannic acid solution	resistant
Chlorine bleach 6 %	resistant	Methylene chloride	not resistant	Xylene	short-term
Distilled water	resistant	Nitric acid 10 %	resistant		
Formaldehyde 37 %	resistant	Petrol / Super	resistant		

Tested for min. 3 months at 20 °C; whether discolouration did occur was not considered.

6. PACKAGING

30 kg - sets

25 kg - component A

5 kg - component B

7. HEALTH AND SAFETY

GISCODE: RE30

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.

8. 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.