**CP-Synthofloor 8463** is a 2-component epoxy coating, colored free of nonylphenol

### DESCRIPTION
- tough-hard
- self-levelling
- self-ventilating
- can be filled with quartz sand (30 up to 50 %)
- very high chemical resistance
- very 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

### TECHNICAL DATA
- **Mixing ratio A : B**: 100 : 20 by weight (5 : 1)
- **Density (23 °C)**: approx. 1.60 g/cm³
- **Volume solids**: approx. 100 %
- **Viscosity (23 °C)**: approx. 1500 mPas ± 300
- **Compressive strength (DIN EN ISO 604)**: > 60 N/mm²
- **Shore D - hardness (DIN EN ISO 868)**: approx. 78
- **Tensile strength (DIN EN ISO 178)**: 45 N/mm²
- **Linear shrinkage**: < 0.12 %
- **Abrasion (1000 g / 1000 rev.) acc. to Taber**: 45 mg
- **Color**: pebble grey approx. RAL 7032 (other colours are available on request)

### APPLICATION DATA
- **Pot life (12 °C / 23 °C / 30 °C)**: approx. 60 minutes / 30 minutes / 20 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)
- **Duration between applications (if sprinkled with quartz sand, the duration will increase)**:  
  10 °C: min. 24 hours / max. 36 hours  
  23 °C: min. 12 hours / max. 24 hours  
  30 °C: min. 6 hours / max. 24 hours
- **Curing time / foot traffic (12 °C / 23 °C / 30 °C)**:  
  36 hours / 24 hours / 16 hours
- **Curing time / mech. resistance (12 °C / 23 °C / 30 °C)**:  
  96 hours / 48 hours / 24 hours
- **Curing time / chem. resistance (12 °C / 23 °C / 30 °C)**:  
  7 days / 5 days / 2 days
- **Consumption**: 1.8 - 5.0 kg/m², additional filling with e.g. quartz sand Ø 0.1 - 0.3 mm is possible.

All above values are approximate and may be used as a guideline for specifications.
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

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 8002, followed by a lightsprinkle of clean, dry quartz sand Ø 0.1 - 0.3 mm. On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, CP-Synthofloor 8010 must be used. 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. After mixing, fillers can be added whilst stirring constantly. Distribute the mixture immediately onto the surface. CP-Synthofloor 8463 can be applied as a pure product or mixed with clean, dry, tempered quartz sand Ø 0.1 - 0.3 mm. The mixing ratio (w/w) will be determined by the type of use / application. To apply use a notched trowel (rubber or metal). Spread CP-Synthofloor 8463 as an even coat ensuring uniform thickness. The freshly applied coating should be finished off with a spiked roller within 5 minutes to achieve an excellent surface and to remove bubbles. This is even more important when filled with quartz sand. In order to improve the optical quality (e.g. reddish shades of grey), the fresh coating should be treated with a suitable nylon roller (e.g. 14 mm pile height). 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 con-sumption per m².

Primer: CP-Synthofloor 8002, 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 8002+, quartz sand; Consumption: approx. 0.6 kg/m² resin plus quartz sand, lightly sprinkle with clean, dry quartz sand Ø 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Coating: CP-Synthofloor 8463, pebble grey; Consumption: approx. 1.8 - 5.0 kg/m². System thickness: 2-3 mm.

By using both the clear and pigmented polyurethane topcoats it is possible to modify the aesthetic finish e.g. silk matt, glossy, smooth and anti-slip. Topcoats also improve both the chemical and mechanical resistance (please consult us).

Professional maintenance will increase the service life of the flooring system.

N/B: UV radiation cause discolouration.

4. CHEMICAL RESISTANCE

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

Tested for min. 4 months at 20 °C; whether discoulouration did occur was not considered.

5. PACKAGING

30 kg - sets 25 kg - component A 5 kg - component 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.

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.