

FLORCOAT 880

2-comp. EP advanced resin top coat, vapour permeable, low VOC

PRODUCT DESCRIPTION

FLORCOAT 880 is a coloured, two component, advanced water-based self-smoothing floor topping that is designed to withstand heavy vehicular traffic. It provides a tough, hard wearing, seamless surface that is easy to clean and is resistant to fuels, oils, and most solvents and chemical.

FLORCOAT 880 exhibits good UV stability and weather resistance compared to traditional epoxy systems.

FEATURES AND BENEFITS

- **High solids** – durable; higher DFT.
- **Advanced resin system** – tough, versatile, easy application.
- **Low VOC emission.**
- **High water vapor permeability** – does not blister in situation subject to moisture and humidity.
- **Good adhesion** to concrete and most building material and other coating or topping systems.
- **Water impermeable** – waterproof.
- **Low / no odor** – environmentally friendly.
- **Solvent free** – non-flammable and non-toxic.

FIELD OF APPLICATION

FLORCOAT 880 is recommended for use as a protective topping on concrete in situations subject to medium and high mechanical stresses as in production facilities, warehouse/logistic centres and shopping malls. It is especially suitable for situations where the concrete substrate is exposed to high moisture and humidity.



FLORTECH
FLOORING TECHNOLOGY

TECHNICAL DATA

Solid content	A + B	80 %
Density	A + B (at 25 °C)	1.76 g/cm³
Viscosity	A + B (at 25 °C)	4000 mPas
Adhesive strength	DIN ISO 4624	> 2.5 N/mm² (concrete failure)
Flexural strength	DIN EN 196/ ASTM C190	16 N/mm²
Compressive strength	DIN EN 196/ ASTM C190	55 N/mm²
Abrasion resistance	DIN 53754/ ASTM D1044	80 mg/1000 cycles (Taber CS 10 wheel)
Shore D hardness	DIN 53506/ ASTM D2240	80
Value of water vapour resistance	DIN 5261523/50-95	μ = 4000
E-modulus		7000 N/mm²
Working time	at 25 °C at 30 °C	aprox. 25 min aprox. 20 min
Material consumption	1.8 – 2.3 kg/m²	
Application temperature	min 3 °C above dew point	10 – 30 °C
Cure time to withstand :	at 25 °C : foot traffic : heavy traffic : exposure to chemical	after 24 hours after 7 days after 28 days
Packaging size	28 kg	Part A : 25 kg Part B : 3 kg
Mixing ratio	A : B (by weight, kg)	100 : 12
Overcoating	at 25 °C	within 24 hours.
Surface	Silky matt	
Shelf life	12 months in closed original container.	
Storage	dry and frost free at 10 – 30 °C, avoid direct sunlight.	
Above figures are guide values and should not be used as a base for specifications!		

APPLICATION METHOD

1. SUBSTRATE PREPARATION

The substrate must be firm, clean, dry and have a pull-off strength of 1.5 N/mm² minimum.

The product can be used on green concrete.

Repair imperfections (holes and cracks) with an epoxy patching compound such as **FLORPRIME 110** where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials.

Prepare substrate by Captive Shot Blasting or Diamond Grinding to provide the appropriate surface profile for optimum mechanical interlocking.

2. APPLICATION

Priming:

Apply **FLORPRIME 500** primer at the consumption rate of min. 0.2 kg/m² by roller.

Allow to cure for a minimum of 8 hours but not longer than 24 hours before the application of **FLORCOAT 880**.

Applying FLORCOAT 880:

Before starting the application, the material temperature must be close to site conditions.

Mix Component A for 2-3 minutes.

Empty contents of Component B (Hardener) into Component A (Base Resin). Mix with a suitable mixer at a speed of 500 rpm to avoid incorporating excessive air into the mixture. Mix for 2-3 minutes.

Transfer the mixture into another clean container and mix for 1-2 minute.

Pour **FLORCOAT 880** onto the prepared surface and spread in the nominated thickness using a notch trowel or pin rake. Then, use the spike roller over the spread surface. To achieve uniform thickness, the spreader tool must be checked regularly and replaced.

Provide good ventilation to ensure that the relative air humidity does not exceed 80% during application and curing as it will inhibit evaporation of water and affect cure.

3. OVERCOATING

The second coat can be applied within 24 hrs without grinding. If longer, the surface has to be grinded before over-coating.

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