



# CONCOAT EP100

## Technical Data Sheet

### Solvent Free Epoxy Resin Floor Coating

#### Composition and Application Field

**CONCOAT EP100** is a high performance, two component, solvent free self-leveling epoxy resin flooring system. The cured film forms a hard coat with excellent adhesion to concrete, granolithic screeds, and certain metal surfaces.

**CONCOAT EP100** cures to a transparent glossy, impervious finish which can be easily cleaned.

#### Uses

**CONCOAT EP100** is a heavy duty traffic floor coating suitable for used in reception, production assembly areas, workshops, dairies, soft drinks production and bottling plants, kitchens, hospitals and showrooms.

**CONCOAT EP100** provides a hard wearing, easily cleaned and attractive floor coatings in areas where high resistance to chemical attack is required.

**CONCOAT EP100** is used as a top coat for concrete floors and as a finish coat for epoxy floor screeds to provide a more durable and easily cleaned surface where high impact is desirable.

#### Advantages

- High impact resistance. Hard wearing – durable. Low maintenance costs.
- High abrasion resistance.
- Provides hygienic – impervious finish High chemical resistance.
- Applicable to apply at various thicknesses 1.0 - 20.0 mm.

#### Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. Use a dry sponge to remove water on wet surfaces. Treat oil or grease contamination should be removed by degreaser followed by water or steam cleaning.

New concrete floors should be cured for at least 28 days and have a moisture content of less than 5%. Excessive laitance should be removed by mechanical method.

Old concrete floors damaged areas or surface irregularities should be repaired by using EPOMORTAR FC two component fast curing epoxy mortar (Refer to TDS). In case, application over design, confirm that the system totally full cured and free from dust.

#### Mixing

The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes. Use a heavy duty slow speed power drill with jiffy mixing blade. Mix the two components in the quantities supplies (ratio base: hardener by weight is 2.125:1.00) ensuring that the hardener container is scraped clean. Do not add solvent thinners at any time.

For decorative purposes, add natural colored stone or colored glass as well as tinting by natural pigments.

#### Application Method

**CONCOAT EP100** is pourable self leveling liquid and must be applied 2000 microns minimum to get a good self leveling, ensuring that the area is completely covered. The second coat can be applied after 24 hours at 35°C.

#### Coverage

1m<sup>2</sup>/L at 1000microns WFT

#### Cleaning

Tools and equipment can be cleaned immediately by using **THINERCOAT 10** organic solvent.

#### Package

12, 24 liter pack (including colored base, and hardener).

#### Technical Properties

Mixed Density	1.07 + 0.05																						
Volume Solids ASTM D 2823-91	100% ± 1																						
Application Temperature	10°C to 45°C																						
Tack Free Time	8 hours at 35°C																						
Initial Hardness	24 hours at 35°C																						
Pot Life	1 hour at 35°C																						
Full Cure	7 days at 35°C																						
Shore A Hardness ASTM D 2240 - 91	80																						
Compressive Strength ASTM C 579 B	>85 N/mm <sup>2</sup>																						
Pull-Off (On course) ASTM D 4541-85	>2.5 N/mm <sup>2</sup> (CF)																						
Abrasion Resistance (ASTM D 1044-85, CS-17 Wheel 500 gm load)	100 cycles 0.5 -1.0 mg 500 cycles 3.5 - 4.5 mg 1000 cycles < 9.0 mg																						
Chemical Resistance ASTM D1308	<table border="0"> <tr><td>Gasoline</td><td>Resistant</td></tr> <tr><td>Petrol</td><td>Resistant</td></tr> <tr><td>Diesel</td><td>Resistant</td></tr> <tr><td>Engine Oil</td><td>Resistant</td></tr> <tr><td>Kerosene</td><td>Resistant</td></tr> <tr><td>Skydrol</td><td>Resistant</td></tr> <tr><td>NaOH 20%</td><td>Resistant</td></tr> <tr><td>H<sub>2</sub>SO<sub>4</sub> 10%</td><td>Resistant</td></tr> <tr><td>HCl 10%</td><td>Resistant</td></tr> <tr><td>Acetic 5%</td><td>Resistant</td></tr> <tr><td>Brake fluid</td><td>Resistant</td></tr> </table>	Gasoline	Resistant	Petrol	Resistant	Diesel	Resistant	Engine Oil	Resistant	Kerosene	Resistant	Skydrol	Resistant	NaOH 20%	Resistant	H <sub>2</sub> SO <sub>4</sub> 10%	Resistant	HCl 10%	Resistant	Acetic 5%	Resistant	Brake fluid	Resistant
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#### Storage and Shelf Life

Product should be stored at 25°C in dry conditions.  
18 months in tightly closed container.

#### Flammability

**CONCOAT EP100** is nonflammable material.

**THINERCOAT 10** is flammable material.

#### Safety Precaution

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray. MSDS is available on request for the safe handling of this product.