



CONCOAT EP100

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 coating 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..

Advantages

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

Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. Wet substrates should be used sponge dried to remove all surface water, then dried. Treat oil or grease contamination should be removed by degreaser followed by water or steam cleaning. New concrete floors should be 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 of heavy duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied (ratio base: hardener by weight is 2.125:1.00) taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time. For decorative purpose can 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 apply in 2000 microns minimum to get good self leveling. Ensure that the area is completely covered. The second coat can be applied after 24 hours at 35 OC.

Coverage

1 m²/ liter at 1000 microns (WFT).

Cleaning

Tools and equipment can cleaned immediately by using THINNERCOAT 10.

Package

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

Technical Properties

Mixed Density	1.10 + 0.05
Volume Solids ASTM D 2823 - 91	100 % ± 1
Application Temperature	10°C to 45°C
Tack Free Time	2 hours at 35°C
Initial Hardness	20 hours at 35 °C
Pot Life	30 minutes at 35 °C
Full Cure	7 days at 35°C
Shore D Hardness ASTM D 2240 – 91	80
Compressive Strength ASTM C 579 B	> 85 N/mm ²
Pull – Off (On concrete) ASTM D 4541 – 85	100 cycles 0. 5 -1.0 mg 500 cycles 3.5 – 4.5 mg 1000 cycles < 9.0 mg
Chemical Resistance: ASTM D1308	Gasoline Resistant Petrol Resistant Diesel Resistant Engine Oil Resistant Kerosene Resistant Skydrol Resistant NaOH 20% Resistant H2 SO ₄ 10% Resistant HCl 10% Resistant Acetic 5% Resistant Brake fluid Resistant

Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 12 months in tightly closed container.

Flammability

CONCOAT EP100 is nonflammable material. THINNERCOAT 10 so do not expose to naked flames during application.

Health and Safety

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.



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