

CONCOAT RESIN

Solvent Free Epoxy Resin Floor Coating

Composition and Application Field

CONCOAT RESIN 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 RESIN** 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. We 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 EPMORTAR 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 taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time.

Application Method

CONCOAT RESIN 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/litr at 1000 microns (WFT).

Cleaning

Tools and equipment can cleaned immediately by using THINNERCOAT 10.

Package

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

Technical Properties

Mixed Density	1.10 + 0.05
Volume Solids	100 % ± 1
ASTM D 2823 - 91	
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	80
ASTM D 2240 – 91	
Compressive Strength ASTM C 579	➤ 85 N/mm ²
Pull – Off (On concrete)	2.5 N/mm ²
ASTM D 4541 – 85	
Abrasion Resistance	100 cycles 0. 5 -1.0 mg
(ASTM D 1044-85, CS-17	500 cycles 35 – 45 mg
Wheel 500 gm load)	1000 cycles < 90 mg
Chemical Resistance:	
ASTM D1308	
	Gasoline Resistant
	Petrol Resistant
	Diesel Resistant
	Engine Oil Resistant
	Kerosene Resistant
	NaOH20% Resistant
	H ₂ 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 RESIN 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.