



# CONCOAT RESIN

## Technical Data Sheet

### Solvent Free Epoxy Resin Floor Coating

#### Composition and Application Field

**CONCOAT RESIN** is a high performance, two component, and 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.

#### Uses

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

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

**CONCOAT RESIN** 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 resistant. Low irritant.
- Provides hygienic – impervious finish High chemical resistance.
- Apply at various thickness 1.0 – 20.0 mm.

#### Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. A dry sponge should be used 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 at least 28 days and have a moisture content of less than 5%. Excessive laitance should be removed by mechanical methods.

**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 the application over designed, make sure that the system fully 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, add natural colored stone or colored glass as well as tinting by natural pigments.

#### Application Method

**CONCOAT RESIN** is pourable self leveling liquid and must be applied 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°C.

#### Coverage

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

#### Cleaning

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

#### 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 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> (Concrete Failure)
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	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

#### Storage and Shelf Life

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

#### Flammability

**CONCOAT RESIN** and **THINNERCOAT 10** are flammable materials so do not expose to naked flames during application.

#### Health and Safety

The application of materials 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 environment and occupational health & safety standards ISO 14001 and OSHA 18001.