

## CONCOAT SL

### Solvent Free Epoxy Flooring Self Leveling

#### Composition and Application Field

**CONCOAT SL** is three components solvent free epoxy resin self-leveling floor coating. It is applied at various thicknesses 2.0 – 5.0 mm. It forms a hard coating with excellent abrasion resistance and high compressive strength. It cures to a glossy, seamless impervious finish which can be easily cleaned. **CONCOAT SL** complies with British standards BS 476, Part 7: 1971 and BS 5493 1971.

#### Advantages

- High impact resistance.
- Hard wearing – durable.
- Low maintenance costs.
- High abrasion resistance.
- Provides hygienic – impervious finish
- High chemical resistance.
- Apply at various thicknesses 2.0 - 5.0 mm.
- It is available in a wide range of colors.

#### 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). **Steel surface** should be grit blasted then clean by solvent and kept to dry. **Epoxy Screeds** high spots or trowel marks should be rubbed down and remove dust and debris by vacuum cleaning then repair it by using EPOSCREED 10 three component epoxy screed (Refer to TDS). **Steel surface** should be grit blasted then clean by solvent and kept to dry. Priming: All substrate should be coated by epoxy primer e.g. PRIME EPS (two components solvent base epoxy primer, refer to TDS).

#### Mixing

Pour the entire contents of the hardener container into the base container and the two materials mixed thoroughly for at least 3 minutes. Mix the two components in the quantities supplied taking care to ensure hardener container is scraped clean. Then add gradually aggregate bag during mix and continue mixing for 2 minutes until a completely homogenous colored material is obtained. Use of heavy duty slow speed power drill with a jiffy mixing blade. Do not add solvent thinners at any time.

#### Application Method

**CONCOAT SL** is recommended to apply in 2000 microns minimum. Ensure that the area is completely covered. Once the material mixed should be poured onto primed surface completely. Spread the material by using spiked roller or steel comber trowel comply with the required thickness.

#### Coverage

8 m<sup>2</sup>/pack at 2 mm (WFT).

#### Cleaning

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

#### Package

16 litr pack (including colored base and hardener)

#### Technical Properties

Mixed Density	1.85 + 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	50 minutes at 35 °C
Full Cure	7 days at 35°C
Shore D Hardness	80
ASTM D 2240 – 91	
Compressive Strength ASTM C 579	>65 N/mm <sup>2</sup>
Pull – Off (On concrete)	>35 N/mm <sup>2</sup>
ASTM D 4541 – 85	
Abrasion Resistance	100 cycles <1.0 mg
(ASTM D 1044-85, CS-17	500 cycles <4.5 mg
Wheel 500 gm load)	1000 cycles < 9.0 mg
Chemical Resistance:	
ASTM D1308	
	Gasoline Resistant
	Petrol Resistant
	Diesel Resistant
	Engine Oil Resistant
	Sjydrol Resistant
	Kerosene Resistant
	NaOH20% Resistant
	H <sub>2</sub> SO <sub>4</sub> 10% Resistant
	HCl 10% Resistant
	Acetic 5% 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.