EVI VERNICI
PAINTS & COATING SOLUTIONS

CONSTRUCTION CHEMICALS DIVISION

CONCOAT SL

Solvent Free Epoxy Flooring
Self Leveling

Technical Data Sheet

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.

Uses:

CONCOAT SL It is heavy duty traffic floor coating suitable for use in polyclinics, kitchens, plants rooms, laboratories, production assembly areas, workshops, dairies, soft drinks production and bottling plants and showrooms.

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

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 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. 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. Dust and other debris should be removed by vacuum cleaning.

Old concrete floors damaged areas or surface irregularities should be repaired by using EPOMORTAR FC (two components 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. Dust and debris should be removed by vacuum cleaning then repaired using **EPOSCREEN 10** three component epoxy screed (Refer to TDS)

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 m²/ pack at 2.0 mm (WFT).

Cleaning

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

Package

16 liter pack (including base, hardener).

Technical Properties

Mixed Density	1.85 + 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	50 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	>65 N/mm²
Flexural Strength BS 6319	>35 N/mm²
Abrasion Resistance (ASTM D 1044-85, CS-17 Wheel 500 gm load)	100 cycles <1.0 mg 500 cycles <4.5 mg 1000 cycles < 9.0 mg
Chemical Resistance	Gasoline Resistant Petrol Resistant Diesel Resistant Engine Oil Resistant Kerosene Resistant Skydrol Resistant NaOH 20% Resistant H_2SO_4 10% Resistant HCl 10% Resistant Acetic 5% Resistant

Storage and Shelf Life

Product should be stored at 25°C in dry conditions.

18 months in tightly closed container.

Flammability

CONCOAT SL is nonflammable material.

THINERCOAT 10 is flammable material.

Health & Safety

The material should be applied in a good ventilated area. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of eye contact, 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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