



CONCOAT EPS

Solvent Base Epoxy Resin Protective Coating

Technical Data Sheet

Composition and Application Field

CONCOAT EPS is a high performance, two component, solvent based Bisphenol-A epoxy resin which reacts with a curing agent to form a hard coat with excellent adhesion to certain metal, concrete, and granolithic screeds surfaces. It cures to a semi-gloss finish, impervious finish which can be easily cleaned.

CONCOAT EPS is available in wide range of colors.

CONCOAT EPS complies with British Standards BS 476, Part 7: 1971 and BS 5493 -1971.

Uses

CONCOAT EPS is a protective coat suitable for using inside walls of oil reservoirs, gasoline and silos. It can be used in production assembly areas, workshops, soft drinks production and bottling plants, kitchens and showrooms.

CONCOAT EPS provides hard wearing, easily cleaned and attractive protective coatings in areas where high resistance to chemical attack is required.

CONCOAT EPS is used as a final coat and sealer for pours surface as a finish coat to provide a more durable and easy to clean surface where high impact is desirable.

Advantages

- High impact resistance. Hard wearing – durable. Low maintenance costs.
 - High abrasion resistance.
 - Provides hygienic – impervious finish Excellent adhesion to various substrates.
 - Applicable to metal and concrete substrates.
- Applicable to apply on floor and walls.

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.

The substrate must be free from any oils, greases since **CONCOAT EPS** is applied in thin coat.

Concrete floors should be cured for at least 28 days and have a moisture content of less than 5%. Excessive laitance should be removed by mechanical method.

Steel surfaces should be grit blasted in accordance with ISO 8501-1 or SSPC-SP 5 then cleaned by THINNERCOAT 10 (organic solvent) and kept to dry.

Cleaned steel surface should be coated as soon as possible before the formation of rust takes place.

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 a heavy duty slow speed power drill with jiffy mixing blade. Mix the two components in the quantities supplied ensuring that the hardener container is scraped clean. Do not add solvent thinners at any time.

Application Method

CONCOAT EPS is recommended to apply two coats. **CONCOAT EPS** can be applied to prepared surfaces using airless spray, brush or roller.

Ensure that the area is completely coated.

The second coat can be applied after the first coat has initially dried (typically 12 to 18 hours at 35°C).

Coverage

10 m²/liter at 100 microns (WFT) in two coats. It depends on the absorption of the substrate.

Cleaning

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

Package

16 liter pack (including base, and hardener).

Technical Properties

Mixed Density	1.30 + 0.05
Volume Solids ASTM D 2823-91	70% ± 1
Application Temperature	12°C to 35°C
Tack Free Time	1-2 hours at 35°C
Initial Hardness	20 hours at 35°C
Pot Life	5 minutes at 35°C
Full Cure	5 days at 35°C
Shore A Hardness ASTM D 2240 - 91	80
Pull-Off ASTM D 4541-85 (On concrete) (On steel)	2.5 N/mm ² (CF) 2.5 N/mm ² (CF)
Abrasion Resistance (ASTM D 1044-85, CS-17 Wheel 500 gm load)	100 cycles 5 -10 mg 500 cycles 35 - 45 mg 1000 cycles < 90 mg
Flash Point	32°C
Chemical Resistance ASTM D1308	Gasoline Excellent Petrol Excellent Diesel Excellent Engine Oil Excellent NaOH 20% Good H ₂ SO ₄ 10% Good HCl 10% Good Acetic 5% Good Brake fluid Excellent

Storage and Shelf Life

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

Flammability

CONCOAT EPS and **THINNERCOAT 10** are flammable materials. Do not expose to naked flames during application.

Health and Safety

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray. MSDS is available on request for the safe handling of this product.