

CONCOAT EP100

Solvent Free Epoxy Resin Floor Coating

DESCRIPTION

CONCOAT EP100 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 EP100 cures to a transparent glossy, impervious finish which can be easily cleaned.

USES

CONCOAT EP100 is 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 EP100 provides a hard wearing, easily cleaned and attractive floor coatings in areas where high resistance to chemical attack is required.

CONCOAT EP100 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.

ADVANTIGES

- 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. 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.

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, application over design, confirm that the system totally full cured and free from dust.

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate and application, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RITVER Technical Service Department.

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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 can add natural colored stone or colored glass as well as tinting by natural pigments.

APPLICATION

CONCOAT EP100 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 0C.

COVERAGE

1 m²/ liter at 1000 microns (WFT).

CLEANING

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

PACKAGE

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

STORAGE

Product should be stored at 25°C in dry conditions and keeping away from source of flame.

FLAMMABILITY

CONCOAT EP100 is nonflammable material. **THINNERCOAT 10** so do not expose to naked flames during application.

SHELF LIFE

12 months in tightly closed container.

HEALTHY 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.

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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 D Hardness ASTM D 2240 – 91	80
Compressive Strength ASTM C 579 B	> 85 N/mm ²
Pull – Off (On concrete) ASTM D 4541 – 85	2.5 N/mm ² (CF)
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 ₂ SO ₄ 10% Resistant HCl 10% Resistant Acetic 5% Resistant Brake fluid Resistant

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