

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 coat 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 a heavy duty traffic floor coating suitable for used 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. Use a dry sponge 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 cured for 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.

Date Revised: 4th February 2019

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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 a 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) ensuring that the hardener container is scraped clean. Do not add solvent thinners at any time.

For decorative purposes, 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 applied in 2000 microns minimum to get a good self leveling, ensuring that the area is completely covered. The second coat can be applied after 24 hours at 35oC.

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 must be kept away from source of flame.

FLAMMABILITY

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

SHELF LIFE

18 months in tightly closed container.

HEALTH AND 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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TECHNICAL PROPERTIES

Mixed Density	1.07 ± 0.05																														
Volume Solids ASTM D 2823 - 91	100 % ± 1																														
Application Temperature	10 °C to 45 °C.																														
Tack Free Time	8 hours at 35 °C.																														
Initial Hardness	24 hours at 35 °C.																														
Pot Life	1 hour 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	<table style="width: 100%; border: none;"> <tr><td>Gasoline</td><td>Resistant</td><td></td></tr> <tr><td>Petrol</td><td>Resistant</td><td></td></tr> <tr><td>Diesel</td><td>Resistant</td><td></td></tr> <tr><td>Engine Oil</td><td>Resistant</td><td></td></tr> <tr><td>Kerosene</td><td>Resistant</td><td></td></tr> <tr><td>Skydrol</td><td>Resistant</td><td></td></tr> <tr><td>NaOH 20%</td><td>Resistant</td><td></td></tr> <tr><td>H₂SO₄ 10%</td><td>Resistant</td><td></td></tr> <tr><td>HCl 10%</td><td>Resistant</td><td>Acetic 5% Resistant</td></tr> <tr><td>Brake fluid</td><td>Resistant</td><td></td></tr> </table>	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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