

EPOCOAT 400

Solvent Free Nontoxic Epoxy Waterproofing Coating

DESCRIPTION

EPOCOAT 400 is a two-component, liquid applied epoxy resin based seamless waterproofing coating. **EPOCOAT 400** combines the features of epoxy and reactive amine curing agent to produce a tough seamless waterproofing coat with excellent abrasion and chemical resistance. **EPOCOAT 400** is applied over concrete, and steel.

Compliance:

EPOCOAT400 complies with BS 6920 Part 1-2000

USE

EPOCOAT 400 is used for potable water tanks, canals, culverts, sewage water, swimming pools, silos and other above and below ground structures.

EPOCOAT 400 is also used as a protective coating for floors and walls in hospital operation rooms, dental and veterinary clinics.

ADVANTAGES

- Excellent abrasion resistance.
- Excellent chemical resistance.
- Easy to apply BY roller, brush or airless spray.
- No primer is required.
- Liquid applied.
- Non-toxic.
- Provides a seamless coating.
- High bond strength to a variety of substrates.
- Resists positive and negative pressure.
- Tolerates a wide range of temperatures.
- 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 component fast curing epoxy mortar (Refer to TDS).

Steel surface should be grit blasted then clean by solvent and kept to dry.

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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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.)

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 taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time.

APPLICATION

EPOCOAT 400 is recommended to apply in two coats by using airless spray, brush or roller. Ensure that the area is completely coated.

Fiber glass mesh at 40 gm/m² can be placed in between If build up and high tensile strength are required.

Limitation:

Don't build up the material in one coat; 200 micron is the maximum thickness of each coat and 24 hours minimum curing time before applying the next coat.

CLEANING

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

PACKAGE

5 liter pack (including colored base and hardener)

COVERAGE

2.0 – 3.0 m²/ liter at 400 microns (WFT) in two coats.

STORAGE

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

FLAMMABILITY

EPOCOAT 400 is nonflammable material.

THINNERCOAT 10 is flammable so do not expose to naked flames during application.

SHELF LIFE

12 months in tightly closed container.

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TECHNICAL PROPERTIES

Test	Result
Solids Volume	100 %
Specific Gravity	1.45 ± 0.05
Pot Life @ 20 °C	60 minutes
@ 35 °C	40 minutes
Tack Free Time @ 20 °C	6 hours
@ 35 °C	3 hours
Full Cure @ 20 °C	3 days
@ 35 °C	2 days
Time Between Coats @ 20 °C	15 hours
@ 35 °C	12 hours
Bond Strength (ASTM D 4541)	
Steel	3.5 MPa
Concrete	1.5 MPa
Tensile Strength (ASTM D 412)	8.0 MPa
Shore D hardness (ASTM D 2240)	70
Abrasion Resistance (ASTM D 4060-95)	0.09 mg/ cycles
Resistance to Hydrostatic Pressure (DIN 1048)	
Positive	> 13 bar
Negative	> 10 bar
Service Temperature	-2 °C to 80 °C

Chemical Resistance:

The following chemicals spilled on applied samples for 7 days and found satisfy.
Sea water, Sweet water, Butanol, Ethyl Acetate, Toluene, Xylene, Citric acid 5%, Acetic acid 5%, Tartaric acid 10%, Waste Food Stuff, Waste Food Stuff, Starch Solution 5%, Ammonia 0.5.

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.