

EPOFLEX 500

Epoxy Polysulphide Waterproofing Coating

DESCRIPTION

EPOFLEX 500 is a two-component, liquid applied epoxy polysulfide-based seamless elastomeric water proofing coating.

EPOFLEX 500 combines the features of epoxy and polysulfide to produce a tough and flexible waterproofing membrane with excellent abrasion and chemical resistance.

EPOFLEX 500 is applied over concrete, masonry, asphalt, sewage water pipes and steel marine constructions.

USE

EPOFLEX 500 is used for sewage water tanks, canals, culverts, swimming pools (under tiles), silos and other above and below ground structures.

EPOFLEX 500 is also used as a protective coating for floors and walls in sewage water treatment plants.

EPOFLEX 500 is also used as a waterproofing coating for pile head and retaining walls. **EPOFLEX 500** complies with ASTM C957-1998.

ADVANTAGES

- Excellent abrasion resistance.
- Excellent chemical resistance.
- Easy to apply with roller, brush or airless spray.
- No primer is required.
- Liquid applied.
- Provides a seamless coating.
- Flexible with crack bridging ability up to 2 mm.
- 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.

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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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.

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 mix ratio of Part A: Part B 1: 1 by volume. The entire contents of the hardener (Part B container) should be poured into the base (Part A container) and mix thoroughly for at least 3 minutes. Use of heavy duty slow speed power drill with a jiffy mixing blade. Do not add solvent thinners at any time.

APPLICATION

EPOFLEX 500 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 m²/ liter at 500 microns (WFT) in two coats.

STORAGE

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

FLAMMABILITY

EPOFLEX 500 is nonflammable material.

THINERCOAT 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

Solids Volume	100 %
Specific Gravity	1.35 ± 0.05
Pot Life @ 20°C @ 35°C	3.0 hours 1.5 hours
Tack Free Time @ 20°C @ 35°C	24 hours 16 hours
Full Cure @ 20°C @ 35°C	7 days 4 days
Time Between Coats @ 20°C @ 35°C	24 hours 16 hours
Bond Strength (ASTM D 4541) Steel Concrete	3.5 MPa 1.5 MPa
Tensile Strength (ASTM D 412)	6.0 MPa
Tear Resistance (ASTM D 1004)	13 N/mm
Elongation at Break (ASTM D 412)	60 %
Shore D hardness (ASTM D 2240)	50
Abrasion Resistance (ASTM D 4060-95, CS-17 Wheel 500 gm)	100 cycles: 15 mg 500 cycles: 75 mg 1000 cycles: 90 mg
Resistance to Hydrostatic Pressure (DIN 1048) Positive Negative	> 13 bar > 10 bar
Crack Bridging (ASTM C 386)	Minimum 2 mm
Water Vapor Transmission Rate (ASTM E 96-80)	0.8-1.3 g/m ² /day
Low Temperature Flexibility @ 0.5 mm coating (ASTM D3111)	Pass at 26°C
Service Temperature	-2°C up to 80°C
Flammability	Non-flammable

Chemical Resistance:

The following chemicals spilled on applied samples for 7 days and found satisfy:
Sea water, Sewage Water, Sweet water, Butanol, Ethyl Acetate, Toluene, Xylene, Citric acid 20%, Acetic acid 5%, Tartaric acid 10%, Waste Food Stuff, Waste Food Stuff, Starch Solution 5%, Ammonia 0.88.

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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.