



EPOCOAT EPWP

Solvent Free Nontoxic Epoxy Waterproofing Coating

Composition and Application Field

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

Compliance:

EPOCOAT EPWP complies with BS 6920 Part 1-2000

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. 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 Method

EPOCOAT EPWP 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.

Coverage

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

Cleaning

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

Package

5 litr pack (including colored base and hardener)

Technical Properties

Property	Value
Solids Volume	100 %
Specific Gravity	1.45 ± 0.05
Pot Life @ 20 °C	60 mins
@ 35 °C	40 mins
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.

Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 12 months in tightly closed container.

Flammability

EPOCOAT 400 is nonflammable material.

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

Health 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.