EVI VERNICI
PAINTS & COATING SOLUTIONS

CONSTRUCTION CHEMICALS DIVISION

PRIME EP100

Solvent Free Epoxy Resin Primer

Technical Data Sheet

Composition and Application Field

PRIME EP100 is a high performance, two component, solvent free epoxy resin floor coating. **PRIME EP100** is clear low viscosity epoxy floor primer. The cured film forms a hard coating with excellent adhesion to concrete, and certain metal surfaces.
PRIME EP100 complies with British standards BS 476, Part 7: 1971 and BS 5493 -1971.

Uses

PRIME EP100 is used as a base coat for receiving an epoxy floor coating system.
PRIME EP100 is used as a base coat for polyurethane deck floor coating system.
PRIME EP100 is used as a sealer for concrete floors and as a base coat for epoxy floor screeds to provide a more adhesion to surface where high impact is desirable.
PRIME EP100 is used as a dust proof for concrete floors.
PRIME EP100 is used as a top coat for stamp and decorative concrete floors.

Advantages

- One coat application. Penetrating primer.
- High build to use shotblas. Excellent adhesion.
- Reduces bubbling and pinholes. Easy to apply by roll, brush and airless spray.
- Clear finish coat.

Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. A dry sponge should be used 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 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.
Deep 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

PRIME EP100 is recommended to apply in one or two coats. **PRIME EP100** can be applied to prepared surface using airless spray, brush or roller. Ensure that the area is completely coated.

Coverage

10.0 m^2 / liter at 100 microns
(WFT) in one coat

Cleaning

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

Package

5, 10 liter pack (including base and hardener).

Technical Properties

Mixed Density	1.13 + 0.05
Volume Solids ASTM D 2823-91	95% ± 5
Application Temperature	12 °C to 35 °C
Tack Free Time	2 hours at 35°C
Initial Hardness	20 hours at 35°C
Pot Life	40 minutes at 35°C
Full Cure	3 days at 35°C
Pull-Off (On concrete) ASTM D 4541-85	3.5 N/mm^2 (CF)
Abrasion Resistance ASTM D 1044-85, CS-7 Wheel. 500 gm load	1000 cycles: < 90mg
Chemical Resistance:	Gasoline Excellent Petrol Excellent Diesel Excellent Engine Oil Excellent NaOH20% Excellent H_2SO_4 10% Excellent HCl 10% Excellent Acetic 5% Excellent Brake fluid Excellent

Storage and Shelf Life

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

Flammability

PRIME EP100 is nonflammable material. THINERCOAT 10 so do not expose to naked flames during application.

Health and Safety

The application of materials 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 environment and occupational health & safety standards ISO 14001 and OSHA 18001.

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