

PRIME EP100 TG

Tropical Grade of Solvent Free Epoxy Primer

Composition and Application Field

PRIME EP100 TG is a high performance, two component, solvent free epoxy resin floor coating. PRIME EP100 TG 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 TG complies with British standards BS 476, Part 7: 1971 and BS 5493 -1971.

Advantages

- Good overlaying between concrete floor and polyurethane coating system.
- One coat application.
- Penetrating primer.
- High build to use shotblasting.
- Excellent adhesion.
- Reduces bubbling and pinholes.
- Easy to apply by roll, brush and airless spray.

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. 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 TG is recommended to apply in one or two coats. PRIME EP100 TG can be applied to prepared surface using airless spray, brush or roller to receive polyurethane coating system. Ensure that the area is completely coated, then sprinkle Silica Sand while Primer coat still in wet.

Coverage

7.0 – 8.0 m²/litr at 125 microns (WFT) in one coat.

Cleaning

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

Package

5.0, 10.0 litre packs (including base and Hardener)

Technical Properties

Test	Result																		
Mixed Density	1.25 + 0.05																		
Volume Solid	97 % ± 3																		
ASTM D 2823 - 91																			
Application Temperature	10°C to 35°C																		
Tack Free Time	2 hours at 35°																		
Initial hardness	20 hours at 35 °C.																		
Pot Life	45 minutes																		
Full Cure	3 days at 35 °C																		
Pull-Off (On concrete) ASTM D 4541- 85	2.5 N/mm ² (CF)																		
Abrasion Resistance (ASTM D 1044-85, CS-7 Wheel, 500gm load)	1000 cycles < 20.0 mg < 90 mg																		
Chemical Resistance:	<table border="0"> <tr> <td>Gasoline</td> <td>Excellent</td> </tr> <tr> <td>Petrol</td> <td>Excellent</td> </tr> <tr> <td>Diesel</td> <td>Excellent</td> </tr> <tr> <td>Engine Oil</td> <td>Excellent</td> </tr> <tr> <td>NaOH 20%</td> <td>Excellent</td> </tr> <tr> <td>H₂ SO₄ 20%</td> <td>Excellent</td> </tr> <tr> <td>HCl 10%</td> <td>Excellent</td> </tr> <tr> <td>Acetic 5%</td> <td>Excellent</td> </tr> <tr> <td>Brake fluid</td> <td>Excellent</td> </tr> </table>	Gasoline	Excellent	Petrol	Excellent	Diesel	Excellent	Engine Oil	Excellent	NaOH 20%	Excellent	H ₂ SO ₄ 20%	Excellent	HCl 10%	Excellent	Acetic 5%	Excellent	Brake fluid	Excellent
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Storage and Shelf Life

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

Flammability

PRIME EP100 TG is non-flammable material. THINNERCOAT 10 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.