



PRITHVI EPOX-OG 100

Category: Two-Component, High-Solid 100% Epoxy Flooring Coating [2:1]

1. PRODUCT DESCRIPTION

PRITHVI EPOX-OG 100 is a two component, high solid 100% epoxy coating. The system consists of an epoxy resin and polyamine hardener, specially formulated to give superior adhesion, abrasion resistance and excellent heavy-duty coating performance. It consists of an aliphatic "IPD" resin/curative for a versatile combination of chemical resistance and damp surface adhesion. It has a high build cross-linking density, passes a 3000 hrs salt spray test, and can give 500–1000 microns DFT in a single coat.

2. RECOMMENDED USES / APPLICATIONS

Ideal where an attractive appearance must be coupled with exceptional wear resistance:

- Machine shops & heavy engineering plants
- Chemical process areas
- Passenger walkways in airports
- Laboratories subjected to mild acids and spillages
- Radial gate and hoist mechanisms at dams
- Commercial and industrial establishments
- Heavy-duty loading bays and storage areas
- Breweries, textile mills, distilleries and other food processing floors
- Tank linings
- Electronic Processing plants (EV Battery assembly and other electronic industry processing)
- Manufacturing industries

3. ADVANTAGES

- Solvent-free, low odour
- Available in a wide range of colours
- High chemical resistance
- Exceptional wear resistance
- Hard wearing
- Non-slip variant also available
- Easy to clean, seamless finish
- Excellent abrasion resistance
- Flexible and waterproof

4. CHARACTERISTICS & PHYSICAL PROPERTIES



PROPERTY	TYPICAL VALUE	TEST METHOD / STANDARD
Appearance	Coloured liquid	—
Mixing Ratio	2 : 1	—
Solid Content	100%	—
Specific Gravity	1.2 – 1.9	—
Pot Life @ 30°C	30 – 35 minutes	—
Initial Hardness @ 30°C	8 – 10 hours	—
Full Cure @ 30°C	7 days	—
Compressive Strength	80 N/mm ²	ASTM C 579
Flexural Strength	28 N/mm ²	ASTM C 580
Water Absorption	0.2%	—
Modulus of Elasticity	5500 N/mm ²	ASTM C 580

5. CHEMICAL RESISTANCE PROPERTIES

Hydrochloric Acid	Excellent
Sulphuric Acid, 20%	Excellent
Phosphoric Acid, 20%	Excellent
Lactic Acid, 20%	Very Good
Sodium Hydroxide, 50%	Excellent
Water, De-ionized	Unaffected
Sulfuric Acid, 14%	Unaffected
Nitric Acid, 10%	Unaffected
Acetic Acid, 30%	Unaffected
Caustic Soda, 20%	Unaffected
Petrol	Unaffected
Toluene	Stiffened
Xylene	Unaffected
Styrene	Unaffected
Hydraulic Fluid	Unaffected
Alcohol	Excellent
Ketones	Good



6. SURFACE PREPARATION

Old Concrete: Concrete should be dry, free from dust, oil, loose debris and other contaminants. Remove all existing coating (if any) by scraping, grinding or with paint remover. Apply one (1) coat of multi-etch solution and rinse with fresh water, then let it dry for 24 hours to ensure excellent penetration.

New Concrete: New concrete should be cured for at least 28 days; the moisture content of the substrate should be less than 5%. Apply one (1) coat of etch solution, rinse and let it dry. Remove all loose debris prior to the application of PRITHVI EPOX-OG 100.

Mild Steel: Steel should be sanded up to Sa 2½. The epoxy coat should be applied using a suitable brush/roller so that an overall thickness of approx. 350–450 microns is achieved. The range is given for the decision of the engineer in charge where the minimum or maximum DFT is required. Allow the coating to dry for at least 48 hours before ultimately exposing it to fluid media.

Maintenance: Remove all traces of oil, grease and other contaminants with a suitable degreaser and detergent. Remove all rust and loose materials by power tool cleaning or wire brushing. Application of a wash primer to damaged or rusted surfaces is recommended prior to the application of PRITHVI EPOX-OG 100. Surfaces contaminated with oil or grease should be flame cleaned or cleaned using a degreaser and washed with detergent.

7. IMPORTANT NOTES

- Avoid inhaling vapour. Do not use below 5°C.
- While applying, atmospheric moisture should be less than 75%.
- While applying in a food-based industry, work should only be started 7 days after application.

8. STORAGE

At least 1 year in unopened cans. The product should be stored in a cool and dry area. Keep containers tightly closed.

9. CLEANING OF TOOLS

All tools should be cleaned with Wash Thinner or Epoxy Thinner (as recommended) as soon as possible.

10. PHYSIOLOGICAL HAZARDS

Keep resin and hardener away from eyes and skin contact. Good ventilation should be provided, particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink; do not use empty tins to store food, and do not empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately using warm water and soap. Avoid inhaling vapour.

DISCLAIMER

The information contained in this Technical Data Sheet is provided in good faith and is based on Prithvi Coatings' current knowledge and testing believed to be reliable. It is intended as a general guide only and does not constitute a warranty of performance, as actual results may vary depending on application conditions, substrate, and equipment beyond our control. Users should conduct their own trials to confirm suitability for their specific purpose prior to full-scale use. Prithvi Coatings reserves the right to amend this data without prior notice as products are continually reviewed and improved. Please ensure you are referring to the most current version of this document.