



PRITHVI EPOX-MO 100

Category: *Epoxy Primer – Moisture & Oil Tolerant*

1. PRODUCT DESCRIPTION

PRITHVI EPOX-MO 100 is a two-component, 100% solids, solvent-free epoxy primer designed for flooring applications over concrete substrates prone to moisture and oil contamination. The advanced formulation allows deep penetration into oil-saturated or damp concrete, securely tying up contamination, blocking moisture vapor, and providing a robust adhesion base for subsequent flooring systems.

2. RECOMMENDED USES / APPLICATIONS

- Primer for epoxy flooring over fresh, damp, or oil-contaminated concrete
- Pre-treatment for repair, patching, resurfacing, and coating systems in assembly plants, workshops, loading docks, kitchens, manufacturing and chemical plants
- Concrete floors exposed to moisture vapor, grease, petroleum or water intrusion — warehouses, car parks, food plants, mechanical workshops and chemical storage areas

3. KEY FEATURES & BENEFITS

- *Moisture and oil tolerant — penetrates and locks in oil contamination, preserving existing concrete*
- *100% solids, zero VOC and solvent-free formulation*
- *Effective vapor barrier for substrates with high relative humidity; excellent adhesion and chemical resistance*
- *High physical strength and resilience, with fast cure and rapid recoat capability*

4. PHYSICAL & CHEMICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD / STANDARD
Appearance	Two-component, solvent-free liquid (Part A & Part B)	Visual
Colour	Translucent Red	Manufacturer
Volume Solids (%)	100% (solvent-free)	Manufacturer
VOC Content (g/L)	Zero (moisture-primer use); <35 g/L (oil-tolerant use)	Manufacturer
pH (if water-based)	Not applicable (solvent-free system)	—
Theoretical Coverage	30–60 sq per 6 kg kit (0.1–0.2 kg/sqm application rate)	Calculated
Recommended DFT (µm)	130 – 200 µm (5–8 mils) per coat	Manufacturer



PROPERTY	TYPICAL VALUE	TEST METHOD / STANDARD
Recommended WFT (µm)	130 – 200 µm per coat (100% solids, WFT ≈ DFT)	Calculated
Shelf Life	1 year minimum from date of manufacture	Manufacturer

5. COMPOSITION / CHEMICAL BASE

Two-component, 100% solids, solvent-free epoxy resin system.

6. APPLICATION DETAILS

Mixing Ratio (Base : Hardener)	2 : 1 by volume
Pot Life	25–35 minutes (200 g mass, 23°C)
Induction Time	Not required
Application Method	Brush, roller, or squeegee
Thinner / Reducer	Do not thin — use as supplied
Cleaning Solvent	MEK, acetone, or appropriate solvent (clean tools before product gels)
Number of Coats	1 coat (apply generously for oil-tolerant use; reapply as needed for moisture vapor suppression)
Overcoating Interval (Min – Max)	4–8 hours @ 23°C
Full Cure	7 days
Application Conditions	Apply to sound, properly prepared concrete free of dust and contaminants; avoid application if substrate may be recontaminated before cure

7. SURFACE PREPARATION

- Concrete must be sound and free from dust, laitance, grease, and other contaminants
- Clean, degrease, and profile using abrasive blasting or grinding; remove soft or loose material
- No separate primer required — PRITHVI EPOX-MO 100 itself functions as the primer coat

8. PACKAGING

Available Pack Sizes	6 kg kits (other sizes available on request)
Kit Components	Base and Hardener supplied together as a kit (2:1 mix ratio by volume)



9. STORAGE & SHELF LIFE

Store in a dry, shaded and well-ventilated area away from direct sunlight and extreme temperatures. Keep containers tightly closed when not in use. Shelf life is 1 year minimum from date of manufacture when stored as specified.

10. HEALTH, SAFETY & HANDLING

For industrial use only — keep out of reach of children. Use safety glasses and rubber gloves during handling. Prolonged skin or eye contact may cause irritation; wash immediately and seek medical assistance if contact occurs. Do not thin with solvents. Observe all recommended safe practices in installation areas. Refer to the Safety Data Sheet (SDS) for complete health, safety, handling and disposal information prior to use.

11. QUALITY & COMPLIANCE

- Manufactured under controlled quality processes (certification details to be confirmed)
- Regulatory compliance information available on request

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.