

# DURANILE FLOGUARD EPR 50

## Solvent-Based Epoxy Primer

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### Product Description:

**DURANILE FLOGUARD EPR 50** is a two-component, low-viscosity, solvent-based epoxy primer designed for deep penetration into concrete substrates. It is formulated to seal porous concrete, strengthen weak or chalky surfaces, and provide an exceptional adhesive bond for subsequent topcoats. Its primary function is to create a sound, stable, and sealed surface on concrete floors and structures.

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### Features & Benefits:

- **Deep Penetration:** Low viscosity formula penetrates deep into the concrete's capillary structure to seal and reinforce.
  - **Excellent Adhesion:** Creates a powerful bond between the concrete substrate and the subsequent coating system, preventing delamination.
  - **Surface Strengthening:** Binds together weak or dusty concrete surfaces to create a solid foundation for topcoats.
  - **Seals Porosity:** Prevents outgassing from the concrete, reducing the risk of pinholes and bubbles in the finish coat.
  - **Moisture Tolerance:** While not a vapor barrier, it improves resistance to moisture from within the slab.
  - **Chemical Resistance:** Provides a barrier against mild chemical attack and alkali from the concrete
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### Uses :

**DURANILE FLOGUARD EPR 50** is specifically formulated for **priming, sealing, and hardening concrete surfaces** in both industrial and commercial environments. It may be used as a **primer under epoxy or polyurethane systems**, or as a **standalone clear topcoat to improve concrete performance, prevent dusting, and enhance surface durability**.

- **Concrete Surface Sealer:** Penetrates and seals porous substrates to reduce water absorption, minimize dust generation, and improve chemical resistance.
- **Dust-Proofing Coat:** Applied as a clear top layer to eliminate dusting on old or new concrete in warehouses, workshops, and storage areas.
- **Surface Hardener:** Increases abrasion and impact resistance, extending the life of concrete floors in high-traffic or industrial settings.
- **Primer for Coating Systems:** Ensures excellent adhesion for epoxy, polyurethane, and polyurea coatings, especially in heavy-duty flooring or waterproofing applications.
- **Moisture and Alkaline Barrier:** Reduces capillary moisture transport and alkalinity-related issues in concrete substrates.
- **Protective Treatment for Utility Structures:** Ideal for use on concrete manholes, tanks, water treatment basins, and channels to prevent carbonation and chloride ingress

## Technical specifications :

Color	Transparent	
Volume solid	50 %	
Theoretical Coverage	10 m <sup>2</sup> / Kg / coat 50 micron DFT	
Curing Time	Surface Dry	: 2 – 4 hours
	Recoating time	: 16 hours
	Full cure	: 7 days
Pot Life	4 – 6 hours at 25°C	

### Packing:

Available in 20 kg kits (Resin + Cure).

### Storage and shelf life :

- 12 months in original tightly closed containers away from direct sunlight and excessive heat

## Instructions for use :

### 1) Surface Preparation:

- Ensure the **substrate** (concrete or floor surface) is clean, dry, and free from any oils, grease, or contaminants.
- The fresh concrete must be at least 28 days old and the moisture content not more than 5 %.
- Surface should be prepared by light sanding or shot blasting for optimal adhesion.
- If applying over existing coatings, ensure they are well-bonded and free of any dust or loose material.
- Fill the gaps and cracks by using **FLOGUARD EPR 100** with **FLOGUARD GF 40**.

### 2) Application Method:

- **Mixing:** Add the Cure part while the mixer is working and stir with mechanical stirrer thoroughly for 3 minutes until uniform.
- **Application**
  - **Primer** : Apply using a brush, roller, or airless spray system. A roller or squeegee is recommended for large surface areas.
- **Drying Time:**
  - Surface Dry: 2 – 4 hours at 25°C.
  - Over coat : 24 hours

Temperature: Ideal application temperature is between 10°C - 30°C.

## Disclaimer:

The above information is provided to the best of our knowledge. The user must conduct their own tests and trials before full application. The company assumes no responsibility for the misuse or misapplication of the product.