



## Technical Data Sheet

### BC Epoxy Primer 350

#### Two-Component, Low-Viscosity Epoxy Primer & Binder

#### 1). Product Description

BC Epoxy Primer 350 is a two-component, solvent-free, low-viscosity epoxy primer designed to penetrate deeply into concrete substrates, improving adhesion and surface integrity. It functions as a primer, bonding agent, and binder for epoxy mortars and self-leveling epoxy flooring systems. Suitable for hot and tropical climates.

#### 2). Features & Advantages

- Low viscosity for excellent substrate penetration
- Strong bonding to concrete, mortar, and cementitious surfaces
- Multi-purpose: primer, levelling mortar binder, intermediate coat
- Short waiting times between coats
- 100% solids – VOC compliant
- Suitable for low to medium absorbent substrates
- Easy mixing and application
- Excellent adhesion strength

#### 3). Typical Uses

- Primer for epoxy flooring systems
- Bonding bridge for self-leveling epoxy
- Binder for epoxy repair mortars
- Intermediate coat for broadcast systems
- Priming concrete, cement screeds, and epoxy mortars
- Use with systems such as:
  - BC Epoxy SL
  - BC Epoxy Mortar Systems
  - BC Abrasion-Resistant Floor Coatings



#### 4). Technical Data

Parameter	BC Epoxy Primer 350
Composition	2-Part Epoxy Resin
Appearance	Part A: Brownish-transparent liquid / Part B: Clear liquid
Mix Ratio (by weight)	Part A : Part B = 67 : 33
Density	Part A: ~1.60 kg/L, Part B: ~1.00 kg/L, Mixed: ~1.40 kg/L
Viscosity	Low viscosity
Shore D Hardness	~76 (after 7 days at 23°C)
Adhesion Strength	>1.5 N/mm <sup>2</sup> (failure in concrete)
Temperature Resistance	+50°C (continuous), +80–100°C short term (dry heat)
Pot Life	+10°C: 50 min / +20°C: 25 min / +30°C: 15 min
Recoating Time	+10°C: 24 h / +20°C: 12 h / +30°C: 8 h
Recommended Consumption	0.25–0.55 kg/m <sup>2</sup> per coat
Solid Content	~100% by volume & weight
Application Temperature	+10°C to +35°C

#### 5). Surface Preparation

- Substrate must be sound, clean, and dry.
- Compressive strength:  $\geq 25$  N/mm<sup>2</sup>
- Pull-off strength:  $\geq 1.5$  N/mm<sup>2</sup>
- Remove all dust, oil, grease, laitance, curing compounds, and contaminants.
- Mechanical preparation required: shot blasting or grinding.



## Mixing

1. Pre-stir Part A.
2. Add complete Part B into Part A.
3. Mix for 3 minutes using slow-speed drill (300–400 rpm).
4. Scrape sides and mix again until uniform.
5. For mortar applications, slowly add silica sand (Part C—not included).

## Application

- Apply by roller, brush, or squeegee.
- Ensure a continuous, uniform, pore-free coating.
- For highly absorbent surfaces, apply two coats.
- For intermediate broadcast layers, spread, spike-roll, and broadcast quartz sand.

## 6). Coverage

- Primer: 0.25–0.55 kg/m<sup>2</sup> per coat
- Bonding Bridge: 0.30–0.50 kg/m<sup>2</sup>
- Mortar Binder: As required based on sand addition

Coverage varies depending on substrate porosity, roughness, and wastage.

## 7). Packing

15 kg Set:

- Part A (Resin): 10 kg
- Part B (Hardener): 5 kg





## 8). Shelf Life & Storage

- 24 months in original, sealed containers.
- Store in dry conditions at +5°C to +30°C.
- Protect from moisture, frost, and direct sunlight.

## 9). Health & Safety

- Avoid contact with skin and eyes; wear protective gloves, goggles, and clothing.
- Use only with adequate ventilation.
- In case of contact with eyes: rinse immediately with clean water & seek medical attention.
- Do not ingest—seek immediate medical help if swallowed.
- Refer to the SDS for complete safety guidelines.

### DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

