



Technical Data Sheet

BC Epoxy Putty 2000

High-Strength Multipurpose Epoxy Repair & Bedding Compound

1). Product Description

BC Epoxy Putty 2000 is a two-component, high-strength, non-slumping epoxy putty designed for multipurpose repair, anchoring, and grouting applications. Once cured, it forms a tough, resilient, and chemically resistant compound with superior bonding strength to concrete, steel, and various construction materials. It is ideal for horizontal, vertical, and overhead repairs, providing excellent workability and non-shrink performance even under demanding site conditions.

2). Features & Benefits

- High compressive and bond strength compared to concrete.
- Non-slump and non-shrink formulation for horizontal, vertical, and overhead use.
- Excellent adhesion to concrete, steel, and other construction substrates.
- Resistant to impact, vibration, and a wide range of industrial chemicals.
- Good pot life with adequate open time for application.
- Forms a tough, durable, and impervious repair layer.
- Available in multiple grades (standard and long pot life versions).

3). Primary Applications

- Bedding and grouting of machine base plates, bridge bearings, and fixtures.
- Anchoring bolts, dowel bars, and rebar in concrete.
- Filling bolt pockets, holes, cracks, and honeycombs.
- Repairing surface defects on concrete, stone, or metal.
- Sealing injection ports and repairing small voids.
- Resurfacing and preparation layer for epoxy flooring and coatings.
- Suitable for use in structural repairs requiring chemical resistance.



4). Technical Properties

Property	Typical Values	Test Method / Remarks
Appearance	Paste-like, non-slumping	Visual
Color	Milky white	-
Type	Two-component epoxy system	-
Mixing Ratio (by weight or volume)	1:1 (Part A : Part B)	Manual or mechanical mixing
Compressive Strength	≥ 65 N/mm ²	ASTM C579
Bond Strength	Greater than substrate (Concrete)	ASTM C882
Pot Life	30 min at 25°C / 15 min at 40°C	ASTM C881
Tack-Free Time	3 hours at 25°C / 1.5–2 hours at 40°C	-
Full Cure	7 days at 25°C / 3 days at 40°C	ASTM D695
Shrinkage	Negligible (non-shrink)	-
Density (Mixed)	Approx. 1.9 g/cm ³	-
Chemical Resistance	Excellent (See below)	-
Application Temperature	+10°C to +45°C	-



Chemical Resistance

Chemical	Concentration	Resistance
Hydrochloric Acid	10%	Excellent
Sulphuric Acid	10%	Good
Phosphoric Acid	10%	Good
Tartaric Acid	10%	Excellent
Sodium Hydroxide	10%	Excellent
Nitric Acid	10%	Good
Acetic Acid	5%	Limited

5). Surface Preparation

- Concrete surfaces must be sound, clean, and free from oil, grease, dust, laitance, or loose materials.
- Remove unsound concrete by mechanical means (grinding, scarifying, or shot blasting).
- The surface should be rough and porous for better adhesion.
- For steel, remove rust, scale, and grease to achieve a near-white metal finish (SA 2.5 standard).
- Ensure the substrate is completely dry before application.

Mixing Instructions

1. Mix Part A (Resin) and Part B (Hardener) in the specified 1:1 ratio by volume or weight.
2. Add Part B to Part A and mix thoroughly using a mechanical stirrer for 3 minutes until a uniform, streak-free paste is achieved.
3. Avoid entrapping air during mixing.
4. For ease of application, use a small amount of BC Epoxy Solvent on tools to aid workability (do not dilute material).
5. Apply immediately after mixing within the pot life period.



6). Application Guidelines

- Apply the mixed putty using a trowel, spatula, or knife depending on surface geometry.
- For bolt anchoring or dowelling, fill the hole completely and insert the element while rotating slowly.
- For crack or void repair, press the putty firmly into the cavity to eliminate air pockets.
- Smooth the surface using a trowel dipped in BC Epoxy Solvent.
- Allow to cure fully before subjecting to mechanical load or chemical exposure.

7). Packaging

Packaging Type	Net Content	Approx. Yield
Kit	3 kg (Part A + Part B)	≈ 1.75 liters
Kit	50 kg (Part A + Part B)	-

8). Shelf Life & Storage

- 24 months in unopened containers when stored in a cool, dry place, away from direct sunlight and extreme temperatures.
- Store under cover and keep sealed after use.

9).Health & Safety

- Avoid contact with skin and eyes. Use protective gloves, goggles, and suitable clothing.
- Ensure adequate ventilation during mixing and application.
- Clean all tools and equipment immediately after use with BC Epoxy Solvent before the material hardens.
- Refer to the latest Safety Data Sheet (SDS) before handling or use.

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.

