



Technical Data Sheet

BC Poxy FC 145 Screed

Heavy Duty Epoxy Resin Floor Screed

1. Product Description

BC Poxy FC 145 Screed is a three-component, solvent-free epoxy resin floor screed formulated with high-performance epoxy resins and specially graded aggregates.

BC Poxy FC 145 Screed is designed for industrial flooring applications where high mechanical loads, chemical exposure, and heavy traffic conditions are expected. The screed can be applied in varying thicknesses to provide a smooth, dense, and durable floor surface.

2. Features & Advantages

- Easy and fast application
- Excellent adhesion to concrete substrates
- High compressive and mechanical strength
- Excellent abrasion resistance
- Suitable for heavy-duty industrial flooring
- Solvent-free formulation
- Compatible with epoxy coating systems

3. Recommended Uses

BC Poxy FC 145 Screed is suitable for:

- Industrial flooring systems
- Factory and workshop floors
- Warehouses and storage facilities
- Machine shops and production areas
- Car parks and loading ramps
- Maintenance areas
- Industrial processing plants



4. Product Information & Technical Properties

Property	Test Standard	Typical Value
Composition	—	Epoxy resin and selected natural aggregates
Components	—	Three component system
Appearance	Visual	Natural / unpigmented mortar
Density (Mixed)	—	~2.10 – 2.15 kg/L
Shore D Hardness	ASTM D2240	~85
Abrasion Resistance	ASTM D4060	< 30 mg
Compressive Strength (28 days)	ASTM C579	≥ 85 MPa
Flexural Strength	ASTM C580	~35 MPa
Tensile Strength	ASTM C307	~15 MPa
Tensile Adhesion Strength	ASTM D4541	≥ 2.5 MPa
Impact Resistance	ASTM D2794	~11.8 Joules
Temperature Resistance	ASTM D2485	Up to +100°C (short exposure)

5. Surface Preparation

The substrate must be:

- Structurally sound and clean
- Minimum compressive strength 25 MPa
- Minimum pull-off strength 1.5 MPa

Surface preparation steps:

- Mechanical grinding or shot blasting
- Removal of cement laitance and weak layers
- Repair cracks and voids
- Remove dust and contaminants



The prepared substrate must be clean, dry and primed before screed application.

6. Mixing

1. Pre-mix Component A using a slow speed mixer.
2. Add Component B and mix for 2–3 minutes.
3. Add the mixed resin to Component C aggregate while mixing.
4. Mix until a uniform and homogeneous mortar is obtained.

7. Application

- Apply primer to the prepared substrate.
- Apply screed while primer is still tacky (wet-on-wet method).
- Spread screed using guide rails or levelling boards.
- Compact thoroughly.
- Level using straight edge.
- Finish surface using steel trowel.

8. Consumption

Material	Consumption
BC Poxy Primer	0.30 – 0.50 kg/m ²
BC Poxy FC 145 Screed	Approx. 2.2 kg/m ² per mm thickness

Actual consumption depends on surface roughness, substrate condition, and application thickness.

9. Packaging

BC Poxy FC 145 Screed is supplied as a three-component kit:

Component	Packaging
Part A – Resin	2.4 kg
Part B – Hardener	0.5 kg
Part C – Aggregates	25 kg bag

10. Cleaning

- Clean tools and equipment immediately after use with epoxy thinner.
- Hardened material can only be removed mechanically.



11. Health & Safety

BC Poxy FC 145 Screed contains epoxy resins and curing agents.

Precautions:

- Avoid contact with skin and eyes
- Wear gloves, protective clothing, and safety goggles
- Ensure adequate ventilation during application

Refer to Material Safety Data Sheet (MSDS) for complete safety information.

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.

