



Technical Data Sheet

BC Epoxy FC 140

Two-component High-Build Solvent-Free Epoxy Coating

1). Description

BC Epoxy FC 140 is a two-part, high-build, solvent-free, pigmented epoxy resin coating designed for industrial and commercial flooring. It provides a durable, liquid-tight, and chemically resistant surface with excellent mechanical properties. Suitable for use in hot and tropical climatic conditions.

2). Uses

- Roller coating for concrete and screeds with normal to medium-heavy wear (warehouses, garages, workshops, ramps).
- Broadcast system for car parks, hangars, wet process and food industry areas.
- Protective coating for industrial floors requiring durability and easy maintenance.

3). Features & Benefits

- Excellent chemical & mechanical resistance
- Seamless and liquid-tight
- High-build and economical
- Easy application by roller or squeegee
- High-gloss finish, slip-resistant options available
- Solvent-free, very low VOC



4). Technical Data

Property	Value	Standard / Notes
Composition	Pigmented epoxy resin	–
Density (23 °C)	Part A: ~1.72 kg/L, Part B: ~1.00 kg/L Mixed: ~1.54 kg/L	DIN EN ISO 2811-1
Solid Content (mass/volume)	~100 %	Deutsche Beuchemin Method
Shore D Hardness	~80 (7 d / +23 °C)	ASTM D2240
Abrasion Resistance	<50 mg (CS17/1000/1000, 28 d)	ASTM D4060
Impact Resistance	~1.5 kg·m	ASTM D2794
Compressive Strength	≥ 75 N/mm ² (28 d)	ASTM C579
Tensile Strength	~18 N/mm ² (28 d)	ASTM C307
Adhesion Strength	> 1.5 N/mm ² (failure in concrete)	BS 1881 Part 207
Temperature Resistance	+50 °C permanent	–
Water Absorption	~0.05 %	ASTM C413

5). Application Procedure

5.1). Substrate Requirements

- Minimum compressive strength: ≥ 25 N/mm²
- Minimum pull-off strength: ≥ 1.5 N/mm²
- Substrate must be sound, dry, clean, free from dust, oil, grease, and surface contaminants.
- Substrate moisture content: < 4 % pbw (no rising moisture).



5.2). Pot Life (Mixed Product)

Temperature	Pot Life
+20 °C	~30 min
+30 °C	~15 min

5.3). Curing / Ready for Use

Temperature	Foot Traffic	Light Traffic	Full Cure
+20 °C	~24 h	~4 d	~7 d
+30 °C	~18 h	~2 d	~5 d

5.4). System Information

Roller Coating:

- Primer: 1–2 coat x BC Epoxy Primer 349
- Coating: 2 coat x BC Epoxy FC 140

Textured Roller Coating:

- Primer: 1–2 x BC Epoxy Primer 349
- Coating: 1–2 x BC Epoxy FC 140 + BC Aggregate

5.5). Application Instructions

- Mix Part A thoroughly, add Part B, and mix for 3 minutes with a slow-speed drill (300–400 rpm). Add fillers if required and mix 2 more minutes.
- Apply primer ensuring pore-free coverage.
- Apply coating by roller, squeegee, or trowel depending on system.
- Clean tools with BC Thinner immediately after use.

5.6). Important Notes

- Do not apply on substrates with rising moisture.
- Protect freshly applied coating from condensation, damp, and water for 24 h.
- Color variation may occur under UV, but performance is not affected.



- Always use same batch number within a continuous area.

6). Consumption (Theoretical)

System	Product	Consumption
Primer	BC Epoxy Primer 349	0.25 – 0.40 kg/m ² per coat
Roller Coating	BC Epoxy FC 140	0.25 – 0.35 kg/m ² per coat
Textured Roller	BC Epoxy FC 140 + Extender	0.50 – 0.80 kg/m ²

- *Actual consumption depends on substrate condition and wastage.*

7). Storage & Packaging

Packaging

- Part A: 4 / 16 kg
- Part B: 1 / 4 kg
- Set: 5.0 / 20 kg

Shelf Life

- 12 months from date of production

Storage Conditions

- Store in original sealed containers between +5 °C and +30 °C
- Protect from sunlight, frost, heat, and moisture

8). Health & Safety

- Refer to BC Epoxy FC 140 SDS before use.
- Use suitable PPE (gloves, goggles, protective clothing).
- Ensure proper ventilation during application.

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.

