



Technical Data Sheet

BC POXY TERRAZZO 253

Solvent-Free Epoxy Terrazzo Coating for Concrete and Metal Surfaces

1. Product Description

BC Poxy Terrazzo 253 is a two-component (aggregates exclusive), pigmented, solvent-free epoxy resin binder system. It is designed to be mixed on-site with selected mineral aggregates—such as marble, granite, colored or recycled glass, mirror particles, acrylic chips, or non-corrosive metal fragments—to produce decorative, durable, and seamless terrazzo flooring systems.

The product offers excellent adhesion, chemical resistance, and mechanical strength, and is particularly suitable for use in hot and tropical climatic conditions.

2. Uses

BC Poxy Terrazzo 253 is recommended for use as a non-slip, abrasion-resistant, decorative epoxy screed in the following areas:

- Airports and railway stations
- Hospitals and universities
- Restaurants and hotel receptions
- Commercial malls and shopping centers
- Public buildings and high-traffic zones

3. Advantages

- 100% solids, solvent-free formulation (low VOC)
- High compressive and abrasion resistance
- Excellent adhesion to concrete substrates
- High chemical resistance and impact durability
- Can be customized with various decorative aggregates
- Seamless and hygienic surface finish
- Easy to clean and maintain



4. Technical Properties

Property	Test Method	Unit	Typical Value
Density (Part A + B)	ASTM D4052	kg/L	~1.40 (mixed)
Density (Part A + B + C) *	—	kg/L	~2.50 (depends on aggregate type and blend)
Solid Content (by weight)	—	%	~100
Solid Content (by volume)	—	%	~100
VOC Content	EPA Method	g/L	< 50
Shore D Hardness	ASTM D2240-15	—	~80
Abrasion Resistance (CS 10/1000/1000)	ASTM D4060-14	mg loss	< 50
Compressive Strength	ASTM C579-18	N/mm ²	≥ 85
Tensile Adhesion Strength	BS 1881: Part 207	N/mm ²	≥ 1.5 (concrete failure)
Impact Resistance (1.75 kg-m)	ASTM D2794-93	—	No cracks or surface damage
Water Absorption	ASTM C413-01	%	0.05
Thermal Compatibility	—	°C	Permanent +50°C / Short-term 7 days +80°C
Chemical Resistance	—	—	Excellent – resistant to many common chemicals

* Depends on aggregate size, type, and blend ratio.

5. System Components

Layer	Product Name	Typical Coverage
Priming Coat	BC Epoxy Primer 349	0.3–0.5 kg/m ²
Body Coat	BC Poxy Terrazzo 253	~25 kg/m ² for 10 mm thickness
Sealing Coat	BC Poxy Clear 254	~0.2 kg/m ²



6. Application Instructions

Surface Preparation

- Concrete must be sound, dry, and free from oil, grease, dust, and loose particles.
- Minimum compressive strength: 25 N/mm²
- Minimum pull-off strength: 1.5 N/mm²
- Prepare the surface mechanically by grinding, shot blasting, or scarifying to achieve a clean, open-textured profile.
- Remove all dust and debris before priming.

Mixing

1. Pre-stir Part A before adding Part B.
2. Add Part B to Part A and mix mechanically for about 2 minutes until homogeneous.
3. Add Part C (aggregates) and continue mixing for another 2 minutes.
4. Avoid over-mixing to prevent air entrapment.
5. Use a pan-type or low-speed mechanical mixer (300–400 rpm).

Application

- Apply by experienced applicators using trowel or mechanical spreader.
- Compact and level immediately after application to achieve uniform thickness.
- Allow to cure fully before light traffic.

Pot Life

Temperature	Pot Life
+10°C	~60 minutes
+20°C	~25 minutes
+30°C	~15 minutes

7. Packaging

Component	Packaging (kg)
Part A	7.06
Part B	3.53
Part C (Aggregate)	9.01



8. Coverage

Application Layer	Coverage
Primer (BC Epoxy Primer 349)	0.3–0.5 kg/m ²
Body Coat (BC Poxy Terrazzo 253)	25 kg/m ² (10 mm thick)
Sealing Coat (BC Poxy Clear 254)	0.2 kg/m ²

(Coverage may vary depending on substrate condition, surface profile, and aggregate type.)

9. Shelf Life & Storage

- Shelf Life: 12 months from the date of manufacture.
- Storage Conditions: Store in original, unopened containers under dry, shaded conditions at temperatures between +5°C and +35°C.
- Protect from direct sunlight, heat, and moisture.

10. Health & Safety

- Avoid contact with skin and eyes.
- Wear protective gloves, clothing, and safety goggles during handling.
- In case of eye contact, rinse immediately with plenty of water for at least 10 minutes and seek medical attention.
- Ensure adequate ventilation during application.
- Refer to the product's Safety Data Sheet (SDS) for detailed 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.

