

## BC POXY TERRAZO 253

### Solvent Free Epoxy Coating for Concrete and Metal

#### Description:-

BC Poxy Terrazzo 253 is two-component (aggregates exclusive), pigmented, solvent free epoxy resin, mixed and combined (in varying percentages) with fine and/or coarse mineral aggregates (marble or granite), colored or recycled glass, mirror particles, acrylic chips and non-corrosive metal fragments, to produce customized Terrazzo screeds.

Suitable for use in hot and tropical climatic conditions.

#### Uses:

Used to form non-slip, abrasion resistant, decorative epoxy resin screeds for airport, hospital, universities, railway stations, universities, restaurants. Hotel receptions and shopping centers.

#### Technical Properties:

Density Part	A+B: ~1.40 kg/l (mixed) Part A+B+C: ~2.50 kg/l (mixed - depends on aggregate types and blend ratios)
Solid content by weight	~100%
Solid content by volume	~100%
Volatile organic compound (VOC) content	< 50 g/l
Shore D Hardness	~80 (ASTM D2240-15)
Abrasion resistance	< 50mg (CS 10/1000/1000) (ASTM D4060-14) (Taber Abrader Test))
Compressive strength	≥ 85 N/mm <sup>2</sup> (ASTM C579-18)
Tensile adhesion strength	≥1.5 N/mm <sup>2</sup> (concrete failure) (BS 1881 Part 207)
Resistance to impact 1.75 kg-m	(no cracks or any other surface damage) (ASTM D2794-93)
Thermal compatibility Exposure* Dry heat	Permanent +50 °C Short-term max. 7 days +80 °C Short-term max. 12 hrs +100 °C
Chemical resistance Resistant	To many chemicals.
Water absorption	0.05% (ASTM C413-01)

#### Advantages:

High chemical resistance, Low VOC-content, Easy application, Solvent free, good mechanical and abrasion resistance, Anti-slip.



## **SYSTEMS:**

### **Priming coat**

BC Epoxy Primer 349 (Coverage depends on condition of substrate)

### **Body coat**

BC Poxy Terrazzo 253. ~ 25 kg/m<sup>2</sup> to make 10 mm final thickness

### **Grouting**

### **Sealing coat**

BC Poxy Clear 254

## **APPLICATION INTRUCTION:**

BC Poxy Terrazzo 253 must be thoroughly mixed in a Pan Type mixer, electric mixer (300 – 400 rpm), or other suitable equipment.

## **SUBSTRATE QUALITY / PRE-TREATMENT:**

Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>. The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using BC Repair 100.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

## **MIXING:**

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.

When parts A and B have been mixed, add the component C and mix for a further 2 minutes until a uniform mix has been achieved.

Over mixing must be avoided to minimize air entrainment. APPLICATION BC Poxy Terrazo 253 System must be applied by re commended experienced applicators. CLEANING OF EQUIPMENT

Clean all tools and application equipment with thinner immediately after use. Hardened and/or cured material can only be removed mechanically.

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### **FURTHER INFORMATION:**

BC Poxy Terrazo 253 epoxy matrix can be combined with a wide range of fine and coarse mineral aggregate chips (marble or granite), coloured or re-cycled glass, mirror particles, plastic and non-corrosive metal fragments. The inherent characteristics of the selected aggregate chips (weight, density, resin absorption, size, shape, colour) and amount of un-controlled dust in these aggregates can all significantly affect the product and application properties, coverage rate achieved and final appearance.

### **Coverage:**

Product Consumption

**Primer:** BC Epoxy Primer 349 **0.3 - 0.5 kg/m<sup>2</sup>**

**Body Coat:** BC Poxy Terrazzo 253 **25 kg/m<sup>2</sup> at 10 mm**

**Sealing Coat:** BC Poxy clear 254 **0.2 Kg/ m<sup>2</sup>**

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

### **Packaging:**

Available In Package as 13.25 Kg Pail.

### **Storage:**

Store under dry shaded area in the original closed container

### **Shelf Life:**

12 months from date of production if stored as recommended.

### **Health and Safety:**

BC 250 should not come in contact with skin or eyes. Goggles and gloves should be used. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

The Technical specification information and recommendation given one based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product Building chemistry industry reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of Building chemistry industry no guarantee and or responsibility is assumed on the performance of work completion executed with use of our products.

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