

## **BC Poxy Clear 254**

Two component Transparent Seal Coat

### **Description:-**

BC Poxy Clear 254 is a two part, transparent, UV resistant, epoxy resin based seal coat for smooth and broadcasted finishes. Suitable for use in hot and tropical climatic conditions.

### **Uses:**

- Transparent abrasion resistant seal coat for smooth or broadcast systems.
- Suitable as a seal coat for decorative flooring systems.
- Suitable for car park decks, ramps, workshops with light to medium traffic.
- Suitable as a seal coat on horizontal surfaces such as bricks or pavements.
- Suitable for interior and exterior application.

### **Technical Properties:**

Density	Mixed resin: ~0.98 kg/l (+25°C)
Solid content by weight	~53 %
Solid content by volume	~54 %
Abrasion resistance (CS 17 / 1000 / 1000) (7 d / +23 °C)	< 90 mg (ASTM C4060)

### **Characteristics / Advantages:**

- Tough-elastic.
- High glossy appearance.
- UV resistant.
- Good mechanical and chemical resistance.
- Watertight.
- High resistance against yellowing.
- Easy application.
- Easy to clean and maintain.
- Application by brush, roller or spray (conventional or airless).
- Can be applied on horizontal and vertical surfaces.

### **Surface Preparation:**

All surfaces should be sound, clean, dry and free from loose and flaking material, efflorescence, laitance, curing compounds, dirt, oil and grease.

New concrete or cementitious surfaces should be allowed to cure for at least 21 days and have a moisture content, not exceeding 5% before proceeding with the primer application. Laitance and weak deposits on new concrete floors must be removed by light grit blasting, mechanical scabbling or grinding.

For old concrete floors, use mechanical methods like grinding or blasting particularly

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when heavy contamination by oil and grease has occurred or existing coating is present, to provide a suitable clean surface with a profiled open texture. All repairs to cracks, leveling of floors, voids filling should be done using suitable build a Rep Repair Products.

Once the repair is completed allow the product to cure. The surface after carrying out necessary cleaning, shall be vacuumed for removing dust loose debris left over after the cleaning process. Metal surface must be perfectly cleaned up to the white metal by sand blasting, then treated with primer immediately before the oxidation process begins again.

**APPLICATION INFORMATION:**

**Mixing ratio** Part A: Part B = 4 : 1 (by weight)

**Consumption** ~0.15-0.25 kg/m<sup>2</sup>/coat depending on system, exposure and area of application.

The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.

**Substrate temperature** +10 °C min. / +35 °C max.

**Pot Life Temperature Time** +25 °C ~4 h

**Curing time**  
Curing time at +25°C  
Touch dry ~ 5 hours  
Hard dry ~ 10 hours

\*On fully broadcasted basecoats no maximum waiting time applies. Make sure the fully broadcasted surface is free of dirt, oil, dust or any other contamination.

Applied product ready for use	Foot Traffic	Light Traffic	Full cure
+10 °C	~48 h	~5 d	~10 d
+20 °C	~24 h	~3 d	~7 d
+30 °C	~16 h	~2 d	~3 d

**FURTHER INFORMATION:**

Substrate quality & Preparation

Important Considerations

- Freshly applied BC Poxyl Clear 254 must be protected from damp, condensation and water for at least 24 hours.
- Avoid puddles on the surface when applied.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapor, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- Ensure the consistency of BC Poxyl Clear 254 in each area by applying materials from the same control batch numbers.



### **EQUIPMENT:**

BC Poxy Clear 254 must be thoroughly mixed using a low speed electric stirrer (300 to 400 rpm) or other suitable equipment.

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

The concrete substrate 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.

If in doubt, apply a test area first. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by grinding for example. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum. For detailed information regarding substrate quality/pre-treatment please refer to the method statement.

### **Mixing:**

Mix full kits only. Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.

To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimize air entrainment.

### **Application:**

Prior to application, confirm substrate moisture content, relative humidity and dew point.

Seal coat: Sealer coats can be applied by squeegee and then rolled crosswise with a short-piled roller.

For detailed information regarding application please refer to the method statement.

#### **Cleaning Of Equipment**

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

### **Maintenance:**

To maintain the appearance of the floor after Application, BC Poxy Clear 254 must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes.

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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