

Method Statement for BC Floor EPU 100

The Scope of this Method Statement for Epoxy- polyurethane based Coating works is to outline and describe in detail the procedure, material, and labor required to undertake the work or activity in a safe and controlled manner. This will comprise the Epoxy-polyurethane Coating works and as specified in the Project Specification.



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This activity should be performed with strict compliance and implementation of Safety Requirements & procedures, standard practices, and project specifications to complete the work.

Delivery, Storage & Quality Control.

- Store at room temperature in sealed drums. The ideal storage temperature is below 35°C.
- Protect from moisture and moisture vapor.
- Close all drums after use.
- The whole application procedure shall be under continuous surveillance and auditing from quality control team to ensure strict adherence to the Method Statement.
- Deliver materials to the job site in the manufacturer's original, material wrapped
- with the manufacturer's name.

- Comply with the manufacturer's written instructions for proper material storage.
- Products.

BC Floor EPU 100 System guide

BC Poxy putty 2000
BC poxy primer 349
BC Floor EPU 100

Tools and Equipment's.

<input type="checkbox"/> Mechanical grinder or shot blaster
<input type="checkbox"/> Vacuum cleaner (industrial type)
<input type="checkbox"/> Mixing drill with paddle attachment
<input type="checkbox"/> Steel trowel, squeegee, and rollers (short-nap for topcoat)
<input type="checkbox"/> Measuring containers and weighing scale

Environmental, Health and Safety.

Safety goggles, impermeable protective gloves and overall should always be worn when handling this product.

- Contaminated clothing should be removed immediately to prevent further skin contact.
- All the workers will have safety indications to increase awareness of health and safety.
- In case of spillage of Solvent-free epoxy resin floor coating the same will be wiped off by suitable absorber or spill kit.
- Spillage will never be washed by water and disposed of to water body.
- In case of fire use of water jet will be avoided so far possible.

Empty containers, used spilled kit, used brushes and other used stuff will be disposed of as per disposal law & regulations

Execution.

Surface Preparation

1. Concrete Substrate Requirements

- Minimum 28 days cured concrete.
- Compressive strength ≥ 25 MPa.
- Surface moisture $\leq 5\%$ (test with moisture meter).

2. Preparation Method

- Mechanically grind or shot blast the floor to remove laitance, weak concrete, paint, oil, grease, and contaminants.
- Achieve a surface profile of CSP 3–4 (as per ICRI).
- Vacuum thoroughly to remove dust.
- Repair cracks, voids, or surface imperfections with epoxy repair mortar.

Application Procedure

Step 1 – Priming

- Mix primer as per manufacturer's instructions.
- Apply BC Epoxy primer 349 using roller or squeegee at $\sim 0.25\text{--}0.3$ kg/m².
- Allow to cure for 6–8 hours at 25°C before next coat.

Step 2 – Mixing BC Floor EPU 100

- Pre-mix Part A (epoxy resin) and Part C (polyurethane) for 1–2 minutes.
- Add Part B (hardener) and mix for 2–3 minutes until uniform.
- Maintain mix ratio exactly as per TDS.
- Avoid introducing air bubbles.

Step 3 – Application

- Pour mixed material onto the primed surface.
- Spread using steel trowel or squeegee to desired thickness (typically 2–4 mm).
- Back-roll to level and release entrapped air.
- For anti-slip finish, broadcast silica sand while coating is wet, then seal with additional coat.

Step 4 – Curing

- Allow to cure for:
 - Light foot traffic: ~24 hours at 25°C
 - Full mechanical/chemical resistance: 5–7 days at 25°C
- Protect from water, dust, and traffic during curing.

Cleaning of Tools

- Clean tools immediately after use with approved solvent.
- Hardened material can only be removed mechanically.