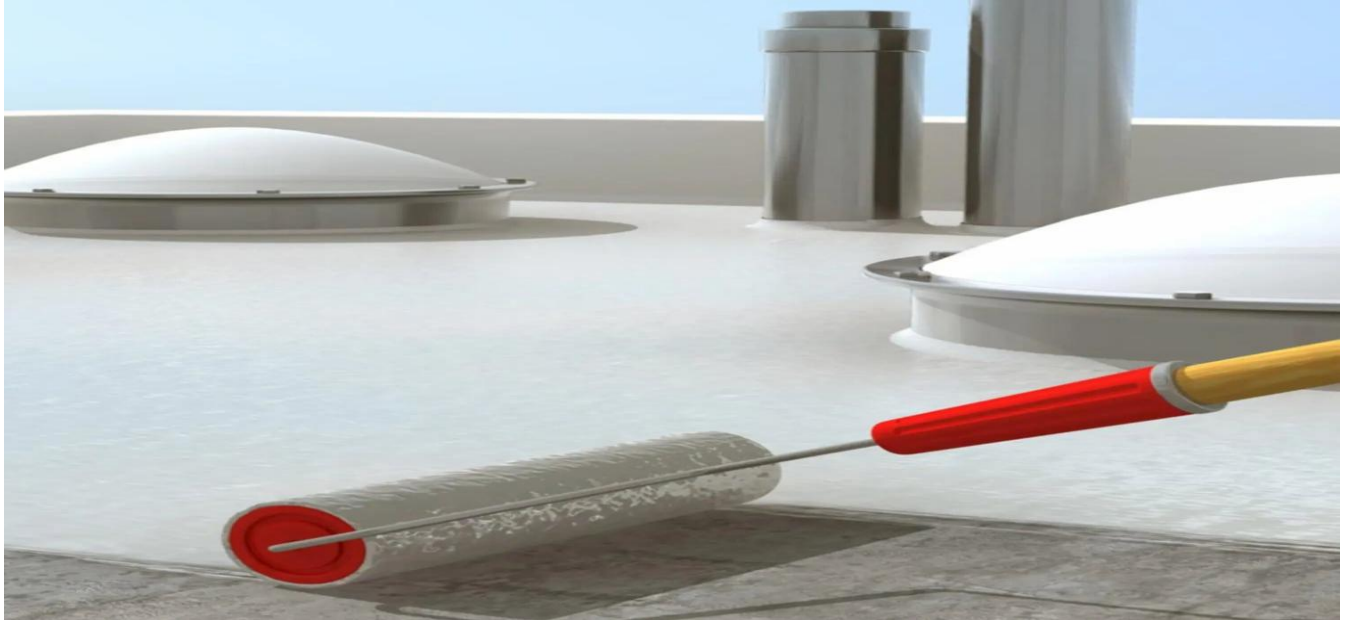


# Method Statement

## BC 914 CA Polyurea Waterproofing System



### 1. Purpose

The purpose of this Method Statement is to define the detailed methodology for application of BC 914 CA Polyurea, a two-component cold-applied polyurea waterproofing coating, used in conjunction with BC Epoxy Primer 349. The procedure ensures proper surface preparation, correct application, durable waterproofing performance, and compliance with project specifications and manufacturer recommendations.

### 2. Scope of Work

The scope of work includes:

- Inspection and preparation of concrete and metal substrates
- Application of BC Epoxy Primer 349
- Mixing and application of BC 914 CA Polyurea waterproofing coating
- Detailing at joints, corners, and penetrations
- Curing, inspection, and final acceptance

### **3. References**

- Project specifications and approved drawings
- BC 914 CA Polyurea Technical Data Sheet
- BC Epoxy Primer 349 Technical Data Sheet
- ASTM / EN standards referenced in product data
- Approved QA/QC and HSE plans

### **4. Materials**

All materials shall be approved prior to use and stored in accordance with manufacturer recommendations.

- BC Epoxy Primer 349 (two-component epoxy primer)
- BC 914 CA Polyurea – Part A & Part B
- Approved repair mortar / epoxy putty for surface defects
- Solvent for tool cleaning (if required)

### **5. Equipment & Tools**

- Low-speed electric mixer with paddle
- Mixing containers and measuring tools
- Rollers, brushes, or rubber squeegee
- Spiked roller (if required)
- Thickness gauge (wet film)
- Hand tools for detailing
- Personal Protective Equipment (PPE)

### **6. Manpower**

- Site engineer / supervisor
- Trained waterproofing applicators
- Helpers / laborers
- QA/QC inspector
- Safety officer

### **7. Detailed Work Procedure**

#### **7.1 Surface Preparation**

- Ensure substrate is structurally sound, clean, and fully cured.

- Concrete moisture content shall be  $\leq 4\%$  prior to primer application.
- Remove dust, laitance, oil, grease, curing compounds, coatings, and loose materials by mechanical means such as grinding or shot blasting.
- Repair cracks, honeycombs, surface irregularities, and blowholes using approved epoxy putty or repair mortar.
- Form smooth fillets (minimum 25–50 mm radius) at internal corners and upstands where required.
- For metal substrates, remove rust, scale, and contaminants by mechanical cleaning to achieve a clean, sound surface.
- Final surface shall be dry, smooth, and free from sharp projections.
- Obtain inspection approval before proceeding.

## **7.2 Application of BC Epoxy Primer 349**

- Mix BC Epoxy Primer 349 components in accordance with the manufacturer's instructions.
- Apply primer uniformly by roller or brush at the recommended coverage rate.
- Ensure complete coverage without ponding.
- Allow primer to cure until tack-free but within the allowable recoat window.
- If primer is left beyond the recoat time, lightly abrade and clean before applying BC 914 CA Polyurea.

## **7.3 Mixing of BC 914 CA Polyurea**

- Mix Part A and Part B in a 1:1 ratio by weight.
- Pour both components into a clean mixing container and mix using a low-speed mixer until a uniform color and consistency are achieved.
- Avoid air entrapment during mixing.
- Mixed material shall be used within the specified pot life depending on ambient temperature.

#### **7.4 Application of BC 914 CA Polyurea**

- Apply BC 914 CA Polyurea by roller, brush, or squeegee over the primed surface.
- Apply at the specified consumption rate to achieve the required dry film thickness.
- Apply in one or multiple coats as specified, ensuring uniform coverage.
- Allow the first coat to become tack-free before applying subsequent coats.
- Use different application directions between coats to ensure full coverage.

#### **7.5 Detailing Works**

- Reinforce corners, joints, cracks, and penetrations with additional coats of BC 914 CA Polyurea.
- Apply extra material at drains, outlets, and terminations to ensure continuity.
- Ensure membrane is seamless, pinhole-free, and fully bonded.

#### **7.6 Curing & Protection**

- Allow the applied coating to cure as per ambient temperature conditions.
- Typical walkability and recoat times shall follow product data guidelines.
- Protect freshly applied coating from water, rain, dust, and mechanical damage during curing.

### **8. Quality Assurance / Quality Control (QA/QC)**

- Verify substrate moisture content prior to priming.
- Check correct mixing ratios and pot life compliance.
- Monitor application thickness using wet film gauge.
- Inspect surface for pinholes, blistering, or defects.
- Conduct final visual inspection before acceptance.
- Maintain inspection records and approvals.

### **9. Health, Safety & Environment (HSE)**

- All personnel shall wear appropriate PPE including gloves, goggles, masks, and safety footwear.
- Ensure adequate ventilation during application.

- Avoid skin and eye contact with chemicals.
- In case of contact, wash immediately with clean water and seek medical advice if required.
- Ensure safe storage and handling of chemical materials.
- Dispose of waste materials in accordance with approved environmental procedures.

## **10. Completion**

- Ensure waterproofing works are completed in accordance with approved specifications and method statement.
- Rectify any defects identified during inspection.
- Submit material data sheets, inspection records, and warranty documents as part of handover.
- Handover the completed BC 914 CA Polyurea waterproofing system after final approval.