BCI BUILDING CHEMISTRY INDUSTRY

# Method Statement for BC Seal primer 175 Application

## 1. Purpose

The purpose of this method statement is to outline the procedure for the proper application of BC Seal primer 175 as a penetrating sealer for concrete surface before application of self levelling flooring system .

## 2. Scope

This method applies to the application of BC Seal primer 1775 on concrete substrates, commonly used in areas requiring chemical resistance, high mechanical strength, or water protection.

## 3. Reference Documents

Material Safety Data Sheets (MSDS) for the BC Seal primer 175 components

Manufacturer's technical data for BC Seal primer 175

Project specifications

## 4. Materials and Equipment

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| BC Seal primer 175 base and hardener |
| Mixing tools (electric mixer, spatulas) |
| Trowels, screed bars, and floats |
| Grinding and surface preparation tools (grinders, sanders) |
| Cleaners (solvent or water as per epoxy manufacturer's recommendations) |
| Personal Protective Equipment (PPE) – gloves, goggles, masks, etc. |

## Procedure

### 4.1 Surface Preparation

Inspection: Ensure the substrate is clean, dry, and free from dust, oil, grease, or any contaminants.

Grinding/Scarifying: If necessary, grind or scarify the concrete to remove laitance and create a rough surface profile.

Crack/Defect Repair: Any cracks, voids, or defects should be repaired before applying the epoxy mortar.

Priming: Apply an epoxy primer (if recommended by the manufacturer) to promote adhesion between the BC Poxy SL sealer and the substrate. Allow it to become tacky.

4.2 Mixing BC Seal primer 175

Preparation of Resin and Hardener: Mix the epoxy resin and hardener according to the manufacturer's specified ratio, typically 2:1 or 3:1, depending on the product.

Mixing Time: Continue mixing for 3-5 minutes until a homogenous mixture is achieved.

4.3 Application of BC Seal primer 175

Trowel Application: Immediately after mixing, pour the BC Poxy  sealer onto the substrate. Spread it evenly using a trowel or screed bar. Apply pressure to ensure proper bonding with the surface.

Thickness Control: Maintain the required thickness, typically between 3-10 mm, depending on the application. Use guides or screed bars to control uniform thickness.

Smoothing: Use a steel float to smooth the surface of the epoxy mortar, ensuring a flat, even finish.

Finishing Touches: If desired, a non-slip finish can be achieved by broadcasting fine sand onto the wet surface.

4.4 Curing

Allow the BC Seal primer 175  to cure as per the manufacturer's recommendations, typically between 24-48 hours depending on temperature and humidity.

Protect the applied mortar from traffic or mechanical impact during the curing process.

4.5 Quality Checks

Adhesion Test: Conduct adhesion pull-off tests to ensure proper bonding of the BC Seal primer 175  to the substrate.

Surface Finish: Ensure the surface is smooth, even, and meets the required thickness and profile.

Health and Safety Considerations

Ensure adequate ventilation in the working area.

Wear appropriate PPE such as gloves, goggles, and masks when handling epoxy materials.

Avoid contact with skin and eyes. In case of contact, wash immediately with plenty of water.

Follow all safety guidelines provided in the Material Safety Data Sheets (MSDS) for the epoxy products used.

## Conclusion

Proper surface preparation, correct mixing ratios, and adequate curing times are critical to achieving a durable and effective BC Seal primer 175 application.