BUILDING CHEMISTRY INDUSTRY

# Method Statement for BC Poxy FC 145 Floor coating system for Ware house .

The Scope of this Method Statement for Epoxy 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 Coating works and as specified in the Project Specification.

Prepared and submitted by

Building Chemistry Industry

Dammam, Kingdom of Saudi arabia

BCI BUILDING CHEMESTRY INDUSTRY
شركة كيماء البناء للصناعة
BUILDING CHEMESTRY INDUSTRY
CP : 2050159093- المملكة العربية السعودية

BUILDING CHEMISTRY INDUSTRY

Condition Assesment

BCI Jeddah made a site visit for condition assesment of concrete floors to determine feasibility of Epoxy flooring

1. There is a wide gap between adjacent concrete blocks which need to closed with concrete repair materials and joint sealants
2. Damaged concrete near Electrical panel board shall be re installed

3 . Minor cracks , gaps up to 4 mm need be treated with BC Poxy putty 2000

4 Entire floor shall be applied with one or two coats of BC Poxy primer 349

BUILDING CHEMISTRY INDUSTRY

| Check lidst for action plan for Industrial Epoxy Flooring BC Poxy FC 145 System. | |
|---|---|
| Standard oprerating procedure / Requirements | Building chemistry Industry action plan |
| 1. Assess the Damage | 1. Assess the Damage |
| Inspect the floor for issues such as cracks, peeling, bubbling, or uneven surfaces. | BCI representative visted site and made detailed study , comments added in this report |
| Mark the damaged areas that need repair. | Individual action plan described along with appropriate picture |
| 2. Prepare the Area | Area will be preapared when work commences |
| Clean the floor: Remove all dirt, dust, oil, and grease using a degreaser or a suitable cleaning agent. Let the surface dry completely. | Standrad method statement steps will be strictly follows |
| Sand the damaged area: | Area will be preapared when work commences |

| | |
|---|---|
| Use an angle grinder or floor sander to remove loose or peeling epoxy. | Accepted and included in method statement |
| Feather the edges of the surrounding area for a smooth transition. | Feather the edges of the surrounding area for a smooth transition. |
| Vacuum the area: Remove all dust and debris thoroughly. | Area will be preapared when work commences |
| If needed, wipe the area with a solvent like acetone to ensure a clean, dust-free surface. | Standrad method statement steps will be strictly follows |
| 3. Repair Cracks or Holes | 3. Repair Cracks or Holes |
| Fill cracks, holes, or other imperfections with an epoxy floor patching compound. | BC poxy putty 2000 will be used |
| Smooth the patched areas with a trowel or putty knife. | Smooth the patched areas with a trowel or putty knife. |
| Allow the patch to cure as per the manufacturer's instructions. | Allow the patch to cure as per the manufacturer's instructions. |
| 4. Apply the New Epoxy Coating | 4. Apply the New Epoxy Coating |
| Mix the epoxy: Follow the manufacturer's instructions to mix the base resin and hardener in the correct ratio. | Mix the epoxy: Follow the manufacturer's instructions to mix the base resin and hardener in the correct ratio. |
| Apply the epoxy: Use a roller or brush to apply the epoxy over the repaired area, blending it into the surrounding coating for a seamless finish. | Standrad method statement steps will be strictly follows |
| Add a second coat (if required): Apply a second coat once the first has cured, especially for high-traffic or heavy-duty areas. | Add a second coat (if required): Apply a second coat once the first has cured, especially for high-traffic or heavy-duty areas. |

| | |
|---|---|
| 5. Curing | 5. Curing |
| Allow the epoxy to cure completely, typically 24–48 hours, depending on the product and environmental conditions. Ensure the area is well-ventilated during curing. | Allow the epoxy to cure completely, typically 24–48 hours, depending on the product and environmental conditions. Ensure the area is well-ventilated during curing. |
| 6. Inspect and Finish | 6. Inspect and Finish |
| Check for consistency in texture and color. | BCI team will ensure consistancy in supplies an dalso Check for consistency in texture and color. |
| Sand lightly if the surface is uneven, then clean and reapply a final thin coat of epoxy if needed. | Sand lightly if the surface is uneven, then clean and reapply a final thin coat of epoxy if needed. |
| Tips for Success | Tips for Success |
| Work in a temperature-controlled environment, as epoxy cures best in specific temperature and humidity ranges. | Will be followd |
| Use protective gear, such as gloves and goggles, to avoid skin contact and inhalation of fumes. | All PPE will be used as appropriate |
| If the damage is extensive or covers a large area, consider recoating the entire floor for a consistent look. | Will be followd |

BCI BUILDING CHEMISTRY INDUSTRY

**Table of contents**



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 Poxy FC 145 System guide**

| |
|---|
| BC Repair 100 |
| BC Poxy putty 2000 |
| BC poxy primer 349 |
| BC Poxy FC 145 |

**Tools and Equipments.**

| |
|---|
| Vacuum shot blasting machine. |
| Grinding machine. |
| Short/medium-haired roller. |
| Mixing vessel. |
| Hand tools, masking tape etc. |
| PPE. |

**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 & Minor Repairs.**

- Prior to application, Mock-up needs to be performed and approved by the Engineer.
- Prior to starting preparation, close the area to be prepared to all traffic and other trades.
- Run Shot Blasting or light grinding machine onto the concrete surface to achieve

medium sandpaper roughness and open concrete surface pores.

- If any part of the floor is contaminated by oil, grease or fuel, the contamination

should be removed before other forms of preparation are undertaken.

- Minor surface defects exposed during surface preparation such as minor cracks or

pinholes shall be filled with epoxy mortar putty as per manufacturer's

recommendation.

- Expansion joints are treated with BCI Polyurethane sealant BC Tec 30S

- Cracks and damages are coved by application of BCI Epoxy putty ,
- When floor preparation is complete, vacuum the area to remove all dust and debris
- . Place 50mm wide masking tape along free edges.

**Application of Primer coat.**

BC poxy 349 Primer is a Two part epoxy exhibiting superior adhesion to concrete and steel. Used primarily as a primer/ sealer for concrete surfaces and top coated with a variety of chemically resistant toppings.

Prior to application both the components are thoroughly mixec with electrical jiffy mixer to ensure uniform mixing and mixed together in ration given in PDS

Mixed material is then applied by notched trowel to get desired thickness and spread evenly with spike roller

**Application of Topcoat of Finish.**

BC poxy FC 145 is a two-component solvent free epoxy system consisting of a base resin and hardener. **It is supplied wide range of RAL colors as per customer project specification , In general mixing method and application is common for all colours** It adheres perfectly to a variety of substrates like concrete, metal, wood, stoneware etc. Once cured the product transforms to an anti-dust, chemical resistant continuous nontoxic membrane. The applied coating is characterized by excellent abrasive resistance and mechanical strength.

Prior to application both the components are thoroughly mixec with electrical jiffy mixer to ensure uniform mixing and mixed together in ration given in PDS

Mixed material is then applied by notched trowel to get desired thickness and spread evenly with spike roller