

Method Statement: Epoxy Flooring Screed BC poxy FC 140 Screed application

Scope of Work

To provide a durable, smooth, and chemical-resistant epoxy screed finish on prepared concrete surfaces for industrial or commercial flooring using Building chemistry Industry , Epoxy screed BC Poxy FC 140



Materials and Tools Required

BC Poxy 349 primer
BCI Epoxy screed compound , BC Poxy FC 140

Silica sand or quartz aggregate
Cleaning tools (vacuum, grinders)
Mixing tools (drill mixer, buckets)
Application tools (steel trowel, spiked roller)
Personal protective equipment (PPE)

Surface Preparation

Cleaning:

Remove all dust, oil, grease, laitance, and contaminants using mechanical means like shot blasting, grinding, or scarifying.

Vacuum the surface thoroughly.

Crack Repair:

Fill hairline cracks with low-viscosity epoxy resin.

For larger cracks or holes, use an epoxy mortar repair kit.

Moisture Check:

Ensure substrate moisture content is below 5% (using a Tramex meter or similar).

Apply a moisture barrier primer if required.

Priming

Mixing Primer:

Mix base and hardener as per manufacturer's instructions.

Application:

Apply primer using a roller or brush uniformly.

Ensure complete coverage (no pinholes).

Allow curing time (typically 6–8 hours, or as specified).

Mixing Epoxy Screed

Combine Components:
Mix resin (Part A) and hardener (Part B) thoroughly.
Add Aggregate:
Slowly add quartz/silica sand while mixing to achieve the required consistency.
Mix for 3–5 minutes until a homogeneous mixture is formed.

Application of Epoxy Screed

Placement:

Pour the mixed screed on the primed surface.
Spreading:
Spread evenly using a steel trowel to desired thickness (typically 3–6 mm)

Compaction & Finishing:

Use a spiked roller to remove trapped air (if specified).

Smooth with trowel before initial setting starts.

Curing

Allow screed to cure undisturbed.
Initial cure: 24 hours.
Full cure and mechanical/chemical resistance: 5–7 days (or as per data sheet).

Inspection and Quality Control

Check for surface defects, pinholes, or unevenness.

Conduct adhesion and thickness tests if required.

Ensure a seamless, level, and defect-free finish.

Health and Safety

Ensure proper ventilation.

Use PPE: gloves, goggles, respirators.
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Follow MSDS guidelines for all materials.
