



Epoxy Flooring System for Laboratories with Light Chemical Use

By Ressichem Private Limited

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Why Epoxy Floorings at Laboratories with Light Chemical Use

Laboratories with light chemical exposure require flooring systems that provide **chemical resistance, hygiene, and mechanical strength** while maintaining a **smooth, easily cleanable finish**. Although the chemical exposure is moderate, regular contact with reagents, solvents, and cleaning agents demands a protective floor with long-term reliability and resistance.

The **Ressi EPO System – Chem Might** from Ressichem combines **reliable primers, self-levelling underlayment (if needed), and a high-performance chemically resistant epoxy topcoat**. This system ensures lasting durability, cleanability, and chemical protection ideal for controlled laboratory environments.



Recommended use cases

This system is ideal for:

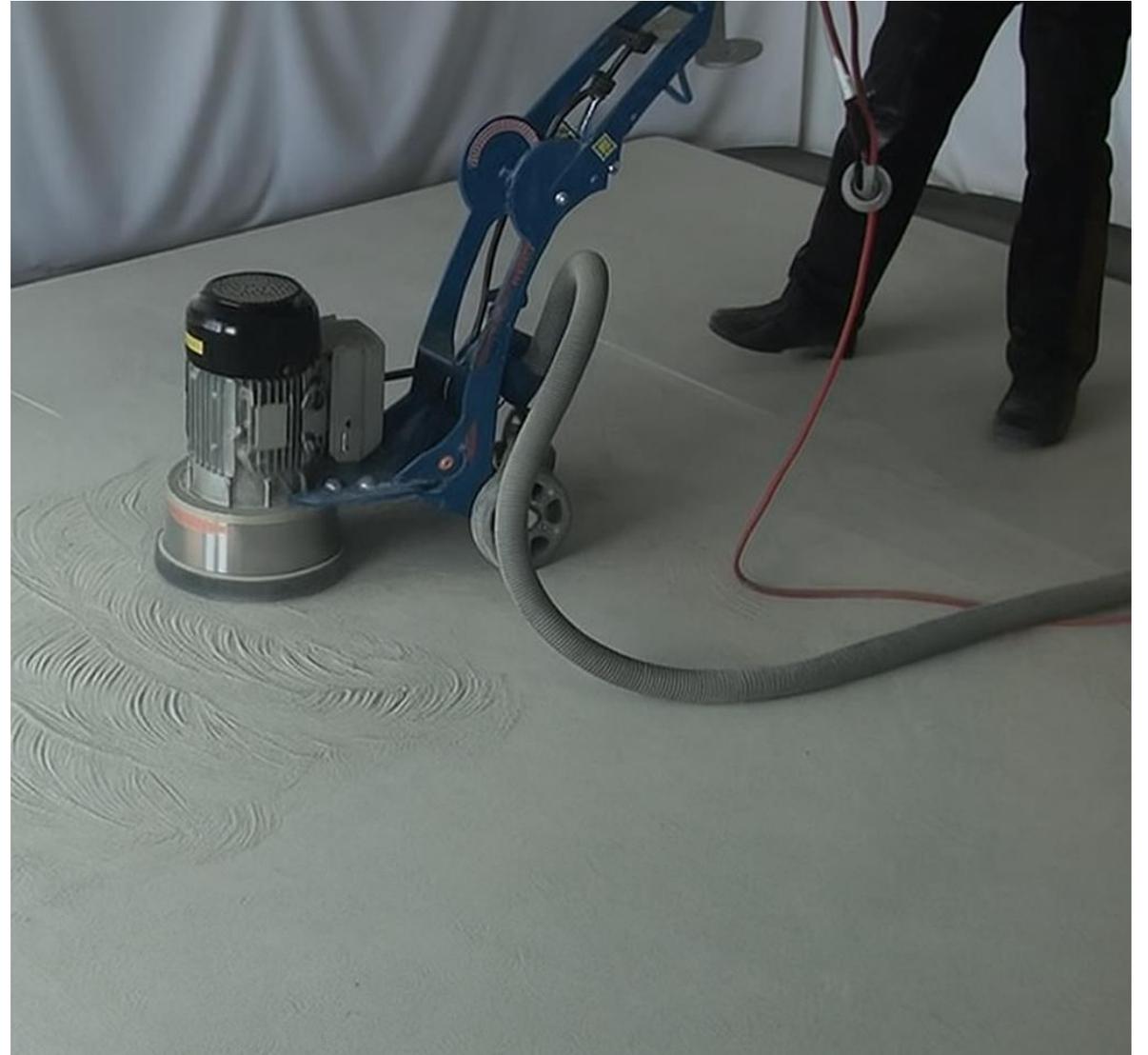
- ⌚ Educational and institutional laboratories
- ⌚ Pharmaceutical and analytical QC labs
- ⌚ Light chemical handling rooms
- ⌚ Research and development areas
- ⌚ Diagnostic and product testing laboratories
- ⌚ Cleanrooms and sample preparation zones



Step 1: Surface Preparation

A well-prepared substrate ensures strong adhesion and system longevity.

- ⌚ Begin with a **sound, levelled screed**
- ⌚ Mechanically grind or lightly shot blast the surface to remove laitance, dust, and contamination.
- ⌚ Clean thoroughly to remove oil, grease, and other residues.
- ⌚ Fill cracks and voids with an epoxy-based repair mortar. All damages should be repaired using suitable repairing materials. Recesschem has a wide variety of repairing materials available.
- ⌚ Confirm that the **substrate moisture content is below 5%** before proceeding.



Step 2: Application of Ressi SLS Primer – 1 *(If Required)*

Where levelling is required, apply **Ressi SLS Primer – 1**, a latex-based primer that enhances adhesion between the substrate and the self-levelling compound.

- ⌚ Stir thoroughly before use.
- ⌚ Apply uniformly by roller, brush, or spray.
- ⌚ Avoid puddling and allow to dry to a tack-free finish (approximately 2–4 hours).



Step 3: Application of Ressi SLS 610 Self-Levelling Screed (If Required)

If the substrate requires surface correction, apply **Ressi SLS 610**, a self-levelling cementitious screed.

- ⌚ Mix with clean water as per manufacturer's ratio using a low-speed mixer.
- ⌚ Pour and spread evenly using a trowel or gauge rake.
- ⌚ Use a spiked roller to remove air bubbles and achieve a smooth finish.
- ⌚ **Ressi SLS 610 does not require curing**, but it must be allowed **7–14 days to release moisture** depending on ambient temperature and humidity.
- ⌚ Confirm **moisture is below 5%** before proceeding with epoxy application.



Step 4: Application of Ressi EPO Primer LV

Apply Ressi EPO Primer LV, a low-viscosity, solvent-free epoxy primer formulated for deep penetration and strong adhesion.

- ⌚ Mix resin and hardener thoroughly in the recommended ratio.
- ⌚ Apply evenly using a roller or brush, ensuring full coverage.
- ⌚ Avoid puddling or excessive film build.
- ⌚ Allow the primer to cure overnight before applying the topcoat.



Step 5: Application of Ressi EPO Chem Might

The final coat consists of **Ressi EPO Chem Might**, a high-build, solvent-free epoxy coating designed to deliver **chemical resistance and surface durability** under light laboratory conditions.

- ⌚ Mix both components thoroughly using a low-speed drill.
- ⌚ Apply evenly using a roller or squeegee, ensuring consistent coverage.
- ⌚ Apply in a single layer at a **minimum total thickness of 1000 microns**.
- ⌚ Allow **48–72 hours** before opening for **mild traffic**, depending on ambient temperature.
- ⌚ Allow a **full cure of 7 days** before subjecting the floor to chemical exposure or routine use.

This results in a **seamless, dense, and chemical-resistant floor** capable of withstanding mild acids, alkalis, and solvents.





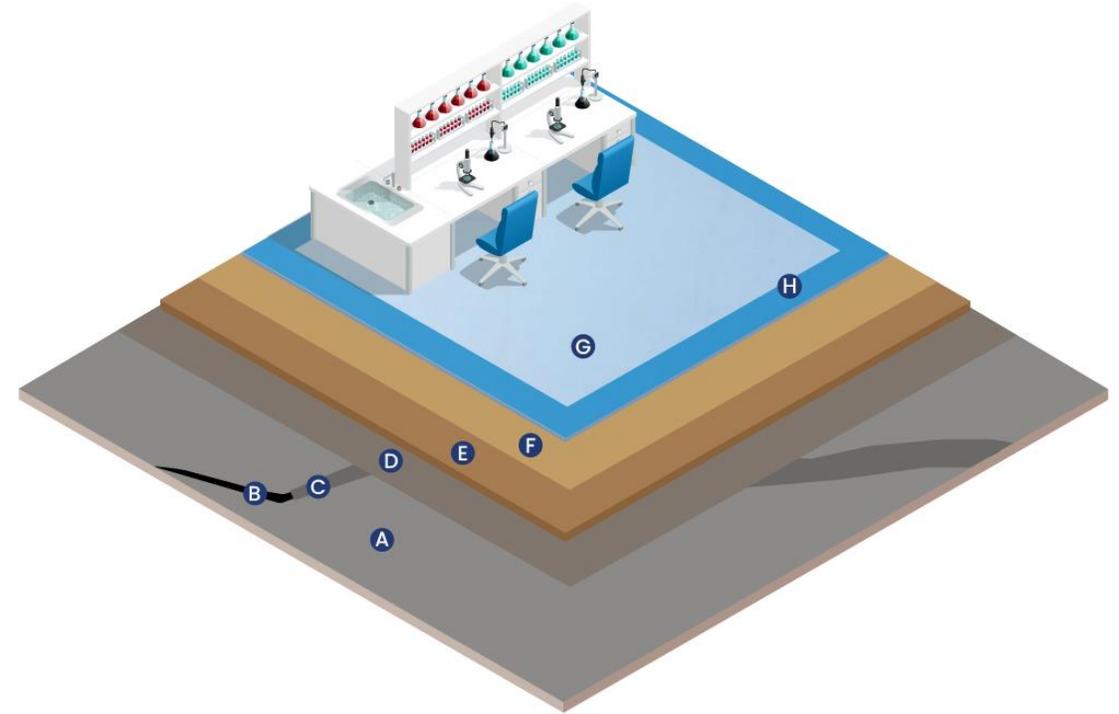
System Summary Table

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Parameter	Description
System Name	Epoxy Flooring system for Laboratories with light chemical use.
Area Type	Laboratories with Light Chemical Use
Traffic Exposure	Light to Medium Duty
Primary Requirements	Chemical Resistance, Hygiene, Durability
Optional Layers	Ressi SLS Primer – 1, Ressi SLS 610 (if required)
Primer	Ressi EPO Primer LV
Topcoat	Ressi EPO Chem Might
Total System Thickness	Minimum 1000 Microns (Single Layer)
Finish Type	Smooth, Semi-Gloss
Curing Time Before Use	48–72 Hours for Mild Traffic / 7 Days Full Cure
Key Benefits	Chemically Resistant, Durable, Hygienic, Seamless

System Diagram

- A) Cementitious Surface: (Concrete slab or screed)
- B) Cracks and surface damage
- C) Crack Filler and Repairing Materials
- D) Ressi SLS Primer - 1 (Optional)
- E) Ressi SLS 610 (Optional)
- F) Ressi EPO Primer LV
- G) Ressi EPO Chem Might
- H) Ressi EPO Chem Might (Marking) - Optional



Thank You

Where To Find Us

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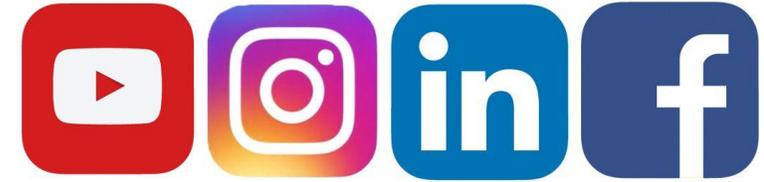
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