Epoxy Flooring System for – Schools & Educational Facilities (Classrooms, Libraries)

By Ressichem Private limited

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Why Epoxy Floorings at **Schools & Educational Facilities (Classrooms, Libraries)**

Schools and educational facilities require flooring that combines **aesthetic appeal, functionality, and long-term durability**. Areas such as classrooms, corridors, and libraries experience frequent foot traffic and routine cleaning, making it essential that the floor is **smooth, hygienic, and easy to maintain**.

The **Epoxy Flooring System for Schools & Educational Facilities** offers a durable, seamless surface that enhances the environment's cleanliness, safety, and appearance. Depending on the project requirements, the system can be finished with either **Ressi EPO Gloss Might** for decorative, high-appearance applications or **Ressi EPO Tough Might** where functionality and durability are prioritized over gloss.

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Recommended Use Cases

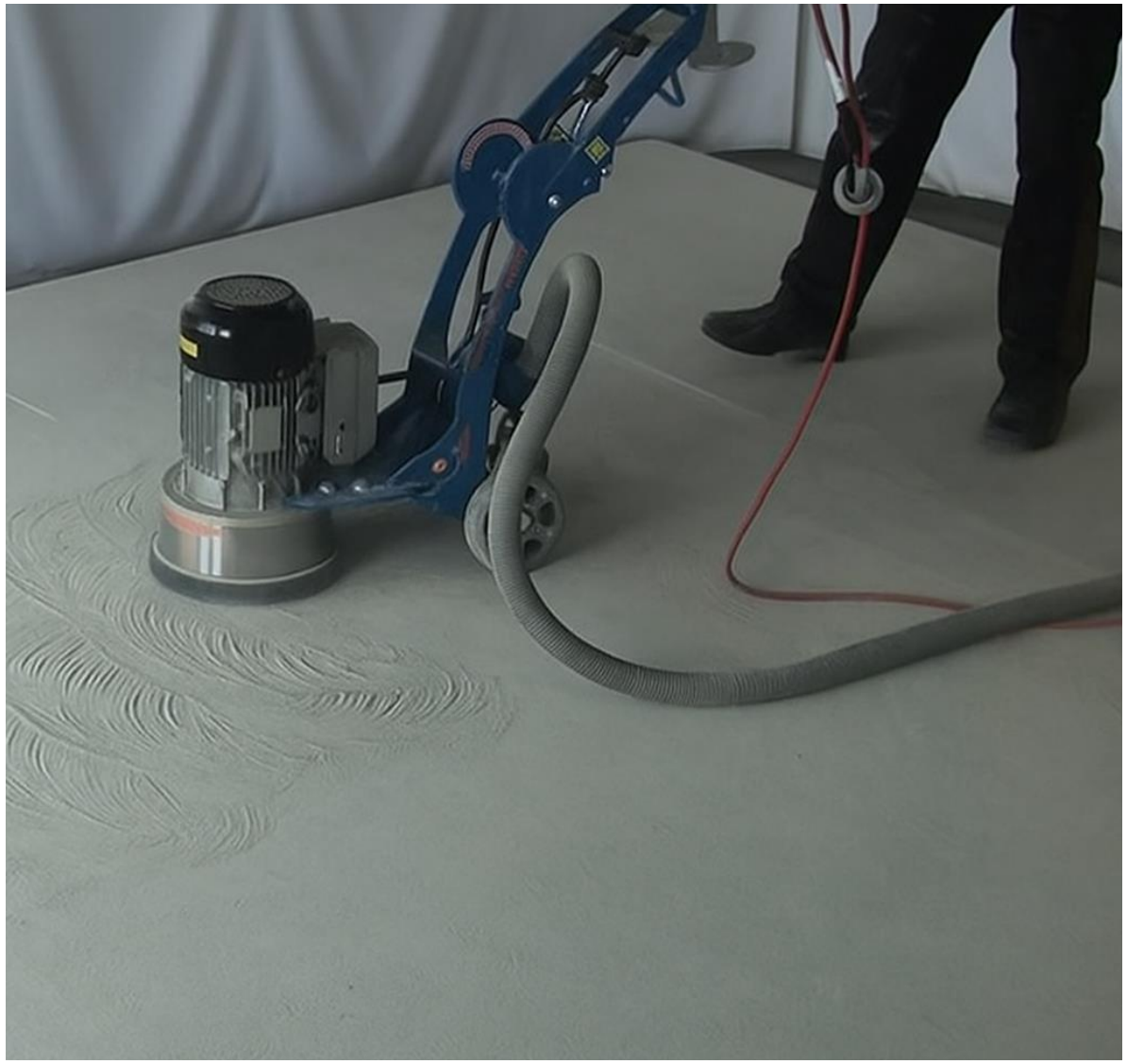
This system is suitable for:

- Classrooms and lecture halls
- School corridors and stair landings
- Libraries and reading areas
- Laboratories with minimal chemical exposure
- Staff offices and common areas
- Administrative and reception zones

Step 1: Surface Preparation

A properly prepared substrate ensures lasting adhesion and system integrity.

- Ensure the screed is **sound, clean, and levelled**
- Mechanically grind or lightly shot blast to remove laitance and contaminants.
- Repair surface defects or cracks using an epoxy-based crack filler.
- Remove dust and debris with industrial vacuuming.
- Confirm that **substrate moisture is below 5 %** before proceeding.



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

Apply **Ressi SLS Primer – 1**, a latex-based bonding primer, where a self-levelling screed is required for smoother or more level surfaces.

- Stir thoroughly prior to use.
- Apply evenly using a roller, brush, or spray.
- Avoid puddling and allow to dry for 2 – 4 hours until tack-free

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

If levelling is needed, apply **Ressi SLS 610**, a thin, self-levelling cementitious floor screed.

- Mix with clean water as per manufacturer's ratio.
- Pour and spread evenly using a trowel or gauge rake.
- Use a spiked roller to remove entrapped air.
- **Ressi SLS 610 does not require curing** but must be allowed **7 – 14 days for moisture release**, depending on temperature and humidity.
- Verify **moisture < 5 %** before proceeding with the epoxy primer.

Step 4: Application of Ressi EPO Primer LV

Apply **Ressi EPO Primer LV**, a low-viscosity, solvent-free epoxy primer that deeply penetrates and seals the substrate.

- Mix resin and hardener in the specified ratio.
- Apply evenly with a roller or brush, ensuring complete coverage.
- Avoid pooling and allow to cure overnight before the final coating.

Step 5: Application of the Final Epoxy Topcoat

Option A – Ressi EPO Gloss Might *(Decorative & Functional)*

- Provides a **high-gloss, visually appealing finish**.
- Ideal for classrooms, libraries, and reception zones where appearance matters.
- Apply in two coats to achieve a total thickness of **minimum 1000 microns**.
- Allow **48 – 72 hours** for mild traffic; **7 days** for full cure.

Option B – Ressi EPO Tough Might *(Functional & Durable)*

- Provides a **semi-gloss, durable surface** emphasizing mechanical strength and longevity.
- Suitable for corridors and high-movement areas.
- Apply in two coats to achieve a total thickness of **minimum 1000 microns**.
- Allow **48 – 72 hours** for mild traffic; **7 days** for full cure.

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System Summary Table

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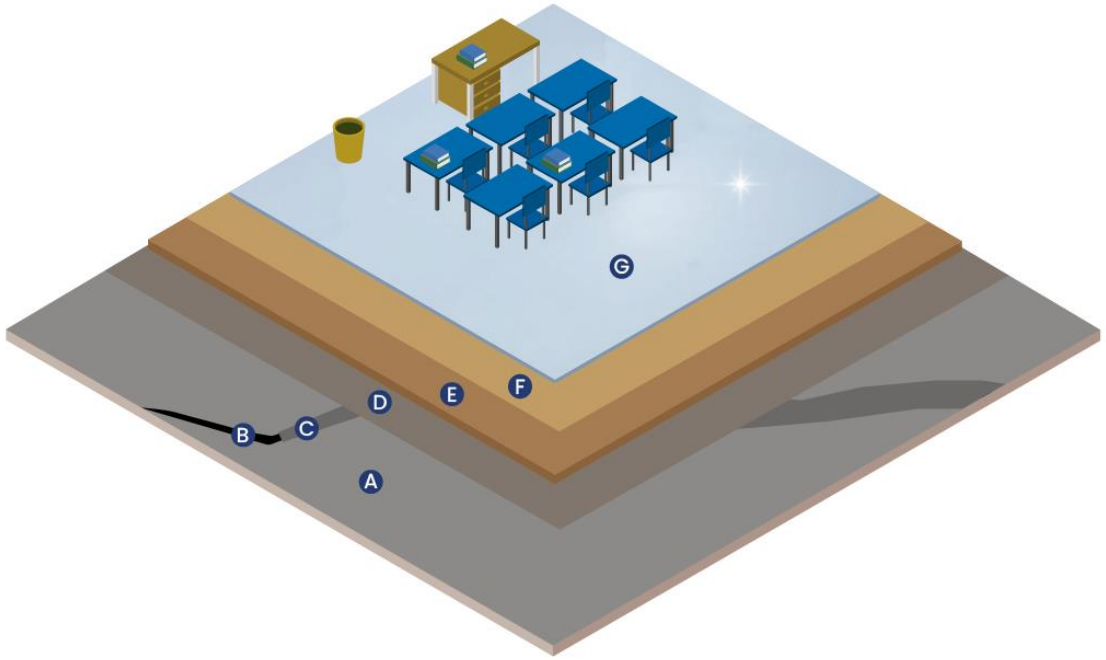
Parameter	Description
System Name	Epoxy Flooring System for – Schools & Educational Facilities (Classrooms, Libraries)
Area Type	Schools, Colleges, Libraries, Educational Buildings
Traffic Exposure	Light to Medium Duty
Primary Requirements	Hygiene, Cleanability, Aesthetic or Functional Durability
Optional Layers	Ressi SLS Primer – 1, Ressi SLS 610 (if required)
Primer	Ressi EPO Primer LV
Topcoat Options	Ressi EPO Gloss Might / Ressi EPO Tough Might
Total System Thickness	Minimum 1000 Microns
Finish Type	Gloss or Semi-Gloss (Depending on Option)
Curing Time Before Use	48 – 72 Hours for Mild Traffic / 7 Days Full Cure
Key Benefits	Seamless, Hygienic, Durable, Customizable Finish

System Summary 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 Gloss Might / Ressi EPO Tough Might



Thank You

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