

EPOXY FLOORING SYSTEM FOR – SCHOOLS & EDUCATIONAL FACILITIES (CLASSROOMS, LIBRARIES)



Introduction

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.

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-Wise System Description

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

Select the appropriate topcoat based on the desired balance between aesthetics and functionality:

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**.

Note:

For detailed information regarding **mixing ratios, pot life, recoat intervals, coverage, and application environment**, it is strongly recommended to refer to the **individual product Technical Datasheets (TDS)** for all materials used in this system before application.

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System Advantages

- **Hygienic & Seamless:** Easy-to-clean, non-porous surface preventing dust accumulation.
- **Aesthetic Flexibility:** Choice between high-gloss or semi-gloss finish.
- **Durability:** Withstands continuous pedestrian use and frequent cleaning.
- **Chemical Resistance:** Tolerates mild cleaning agents and sanitizers.
- **Comfortable & Safe:** Smooth surface reduces trip hazards and improves reflectivity in classrooms.

Maintenance Guidelines

- Clean using neutral pH, non-abrasive detergents.
- Avoid acidic or solvent-based cleaners.
- Wipe up spills promptly to prevent dulling.
- Inspect periodically and recoat if required to maintain finish and protection.

System Summary Table

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	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

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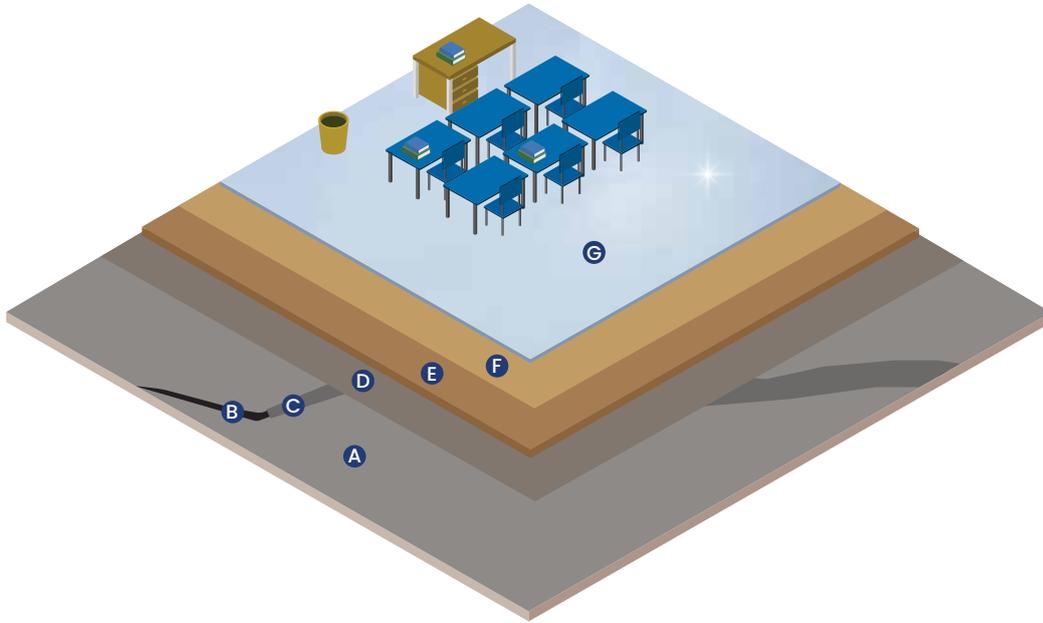


Conclusion

For schools and educational facilities, the Epoxy Flooring System for – Schools & Educational Facilities (Classrooms, Libraries) provides a safe, clean, and long-lasting surface.

By following the sequence — Surface Preparation Ressi SLS Primer – 1 (if required) Ressi SLS 610 (if required) Ressi EPO Primer LV Ressi EPO Gloss Might or Ressi EPO Tough Might — institutions achieve a functional, aesthetic, and low-maintenance flooring solution tailored to the diverse demands of educational spaces.

System Summary



- 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