Epoxy Flooring System for – Hospitals & Pharmaceutical Production Zones

By Ressichem Private Limited

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Why Epoxy Floorings at **Hospitals & Pharmaceutical Production Zones**

Hospitals and pharmaceutical production facilities demand **high-build, hygienic, and visually bright epoxy flooring systems** that support strict cleanliness and safety standards. Floors in these areas must withstand continuous foot traffic, movement of light equipment, and frequent cleaning cycles using mild disinfectants—all while maintaining a smooth, seamless, and attractive surface.

The **Epoxy Flooring System for – Hospitals & Pharmaceutical Production Zones** has been carefully designed with **visibility, hygiene, and safety** in mind. Using Ressichem's range of high-performance epoxy products, this system provides **long-term durability, cleanliness, and aesthetic brightness**, essential for healthcare and pharmaceutical environments.

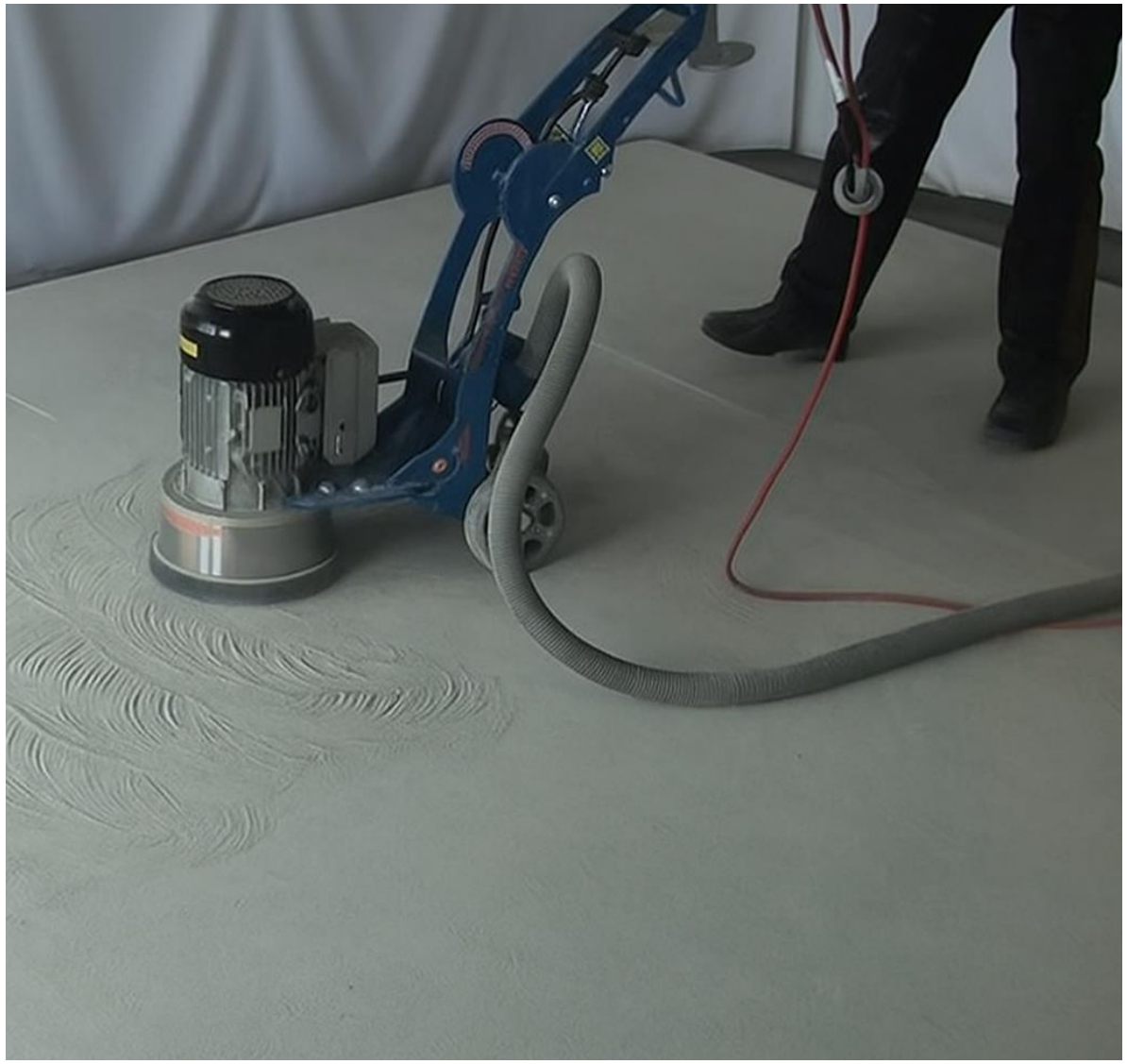
This system is ideal for:

- Pharmaceutical manufacturing units
- Hospital operation and recovery zones
- Laboratory corridors and sterile processing rooms
- ICU, nursing stations, and diagnostic areas
- Medical device assembly rooms
- Pharmaceutical packaging and cleanroom environments

Step 1: Surface Preparation

Thorough surface preparation is essential to achieve a strong and lasting bond between the epoxy system and the concrete substrate.

- Ensure a **sound, levelled concrete base** of adequate strength
- Mechanically grind or shot blast to remove laitance, contamination, and weak layers.
- Repair cracks, joints, and surface defects using **Ressichem recommended epoxy crack fillers and various repairing materials.**
- Clean thoroughly using an industrial vacuum.
- Verify that the **substrate moisture content is below 5 %** before proceeding.



Step 2: Application of Ressi EPO Primer LV

Apply **Ressi EPO Primer LV**, a solvent-free, low-viscosity epoxy primer designed for deep substrate penetration and superior adhesion.

- Mix resin and hardener thoroughly in the specified ratio.
- Apply evenly using a roller or brush, ensuring complete coverage.
- Avoid puddling and allow curing as per ambient temperature before applying the next coat.

Step 3: Application of Ressi EPO Mid Coat S – GP *(Optional but Recommended)*

For levelling, added durability, and smoother finish, apply **Ressi EPO Mid Coat S – GP**.

- Apply at a **minimum thickness of 1000 microns**; **2000 microns** are recommended for critical zones.
- Spread evenly using a notched trowel or squeegee, followed by back-rolling for uniformity.
- Allow to cure overnight before applying the final topcoat.
- This layer may be **omitted** where the surface is already level and smooth.

Step 4: Application of Final Epoxy Topcoat

Select the appropriate topcoat depending on whether a mid-coat is applied:

- **If Mid Coat Applied:**
  Apply **Ressi EPO Gloss Might** at a **minimum thickness of 1000 microns**. This provides a smooth, glossy, and hygienic surface ideal for hospitals and clean areas.
- **If Mid Coat Not Applied:**
  Apply **Ressi EPO Gloss Plus** at a **minimum thickness of 2000 microns** to achieve the necessary system build and performance in a single application.
- Mix resin and hardener thoroughly as per the manufacturer's ratio.
- Apply evenly using a roller or notched squeegee for consistent film build.
- Allow **48–72 hours** for light foot traffic and **7 days** for full cure before chemical exposure or maintenance.

Step 5: Floor Markings *(If Required)*

For demarcation of operational zones, aisles, or sterile boundaries, use **Ressi EPO Gloss Might** in a contrasting color applied as a **roller coat**.

- Ensure the floor surface is clean and fully cured before applying markings.
- Mask boundaries precisely for crisp, defined lines.
- Allow to cure completely before reopening the area to use.

Note: The **total system thickness should be a minimum of 2000 microns.**

If no mid coat is used, apply **Ressi EPO Gloss Plus** directly over the primer to achieve the required build.

For full technical details such as **mixing ratios, pot life, coverage rates, and environmental conditions**, always consult the **product Technical Datasheets (TDS)** prior to application.

System Summary Table

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Parameter	Description
System Name	Epoxy Flooring System for – Hospitals & Pharmaceutical Production Zones
Area Type	Hospitals, Cleanrooms, and Pharmaceutical Production Areas
Traffic Exposure	Medium Duty
Primary Requirements	Hygiene, Gloss Finish, Mild Chemical Resistance, Cleanability
Primer	Ressi EPO Primer LV
Mid Coat (Optional)	Ressi EPO Mid Coat S – GP (1000–2000 microns)
Topcoat	Ressi EPO Gloss Might (with Mid Coat) / Ressi EPO Gloss Plus (without Mid Coat)
Marking Coat (Optional)	Ressi EPO Gloss Might (Roller Applied, Alternate Color)
Total System Thickness	Minimum 2000 Microns
Finish Type	Smooth, Gloss
Curing Time Before Use	48–72 Hours for Light Traffic / 7 Days Full Cure
Key Benefits	Hygienic, Reflective, Durable, Easy-to-Clean, Mild Chemical Resistant

System Diagram

A) Cementitious Surface: (Concrete slab or screed)

B) Cracks and surface damage

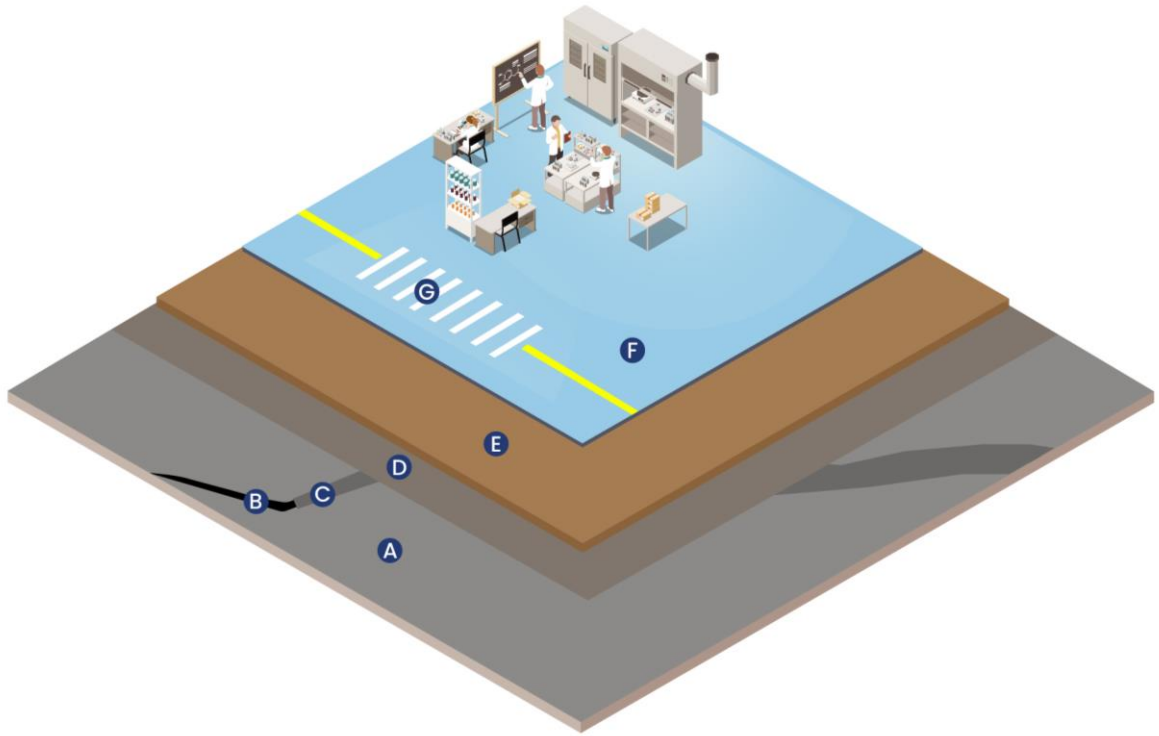
C) Crack Filler and Repairing Materials

D) Ressi EPO Primer LV

E) Ressi EPO Mid Coat S – GP

F) Ressi EPO Gloss Might / Ressi EPO Gloss Plus

G) Ressi EPO Gloss Might (Marking)



Thank You

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