EPOXY FLOORING SYSTEM FOR – HOSPITAL & CLINICAL (NON-CRITICAL AREAS)

RESSICHEM®
adding life and value to your property

Introduction

Hospital and clinical facilities require flooring systems that are **hygienic, easy to clean, and durable**, ensuring a safe and sanitary environment. In non-critical areas such as corridors, waiting rooms, consultation spaces, and administrative zones, the flooring should prioritize **cleanability, appearance, and long-term service life**, while offering resistance to regular foot traffic and cleaning cycles.

The **Ressi EPO System – Hospital & Clinical (Non-Critical Areas)** combines well-established primers, optional self-levelling layers, and a seamless epoxy topcoat to deliver a **hygienic, smooth, and low-maintenance surface** suitable for healthcare environments.

Recommended Use Cases

This system is ideal for:
- Hospital corridors and waiting areas
- Outpatient clinics and consultation rooms
- Staff offices and reception zones
- Pharmacy preparation areas (non-sterile)
- Diagnostic and administrative laboratories
- Rehabilitation and physiotherapy rooms

Step-Wise System Description

Step 1: Surface Preparation

Ensure the substrate is a sound, levelled screed of adequate strength (minimum 25 MPa).
- Mechanically grind or shot-blast to remove laitance and contaminants.
- Clean the surface to eliminate oil, grease, and dust.
- Fill surface cracks or voids with an epoxy repair mortar.
- Confirm the substrate moisture level is below 5 % befor proceeding.

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

Apply Ressi SLS Primer – 1, a latex-based primer that promotes bonding between the substrate and self-levelling layer (if used).
- Stir thoroughly before use.
- Apply uniformly by roller, brush, or spray.
- Avoid puddling; allow 2 – 4 hours to dry to a tack-free condition.

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

Where surface irregularities exist, apply **Ressi SLS 610**, a thin, self-levelling cementitious screed.
- Mix with clean water using a low-speed mixer.
- Spread evenly using a trowel or gauge rake.
- Use a spiked roller to remove trapped air.
- **Ressi SLS 610** does not require curing but needs **7 – 14 days to release moisture**, depending on ambient conditions.
- Verify **moisture levels are below 5 %** before applying epoxy primer.

Step 4: Application of Ressi EPO Primer LV

After confirming dryness, apply **Ressi EPO Primer LV**, a low-viscosity, solvent-free epoxy primer that penetrates and seals the substrate.
- Mix resin and hardener thoroughly in the prescribed ratio.
- Apply with a roller or brush ensuring uniform coverage.
- Avoid pooling and allow to cure overnight before top coating.

Step 5: Application of Ressi EPO Tough Might

Finish with **Ressi EPO Tough Might**, a high-build, solvent-free epoxy coating designed for hospital and clinical environments requiring **hygiene, durability, and ease of cleaning.**
- Mix components thoroughly using a slow-speed drill.
- Apply in a single coat at a **minimum thickness of 1000 microns**, or more where required.
- Back-roll to achieve an even surface.
- Allow **48 – 72 hours before opening to mild traffic, and 7 days for full cure** before maintenance cleaning or exposure to routine operations.

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:** Non-porous surface prevents bacterial accumulation.
- **Easy Maintenance:** Smooth finish simplifies cleaning routines.
- **Durability:** Withstands regular hospital foot traffic and trolley movement.
- **Chemical Resistance:** Resists mild cleaning and disinfectant agents.
- **Aesthetic Finish:** Smooth, semi-gloss appearance enhances cleanliness perception.
- **Versatility:** Suitable for all non-critical healthcare zones.

Maintenance Guidelines

- Use neutral, non-abrasive cleaning solutions.
- Avoid solvent-based or highly acidic products.
- Clean spills promptly to maintain hygiene.
- Re-inspect periodically and recoat if required for long-term aesthetics.

System Summary Table

Parameter	Description
System Name	Epoxy Flooring System for Hospitals & Clinical (Non-Critical Areas)
Area Type	Hospitals, Clinics, and Healthcare Facilities (Non-Critical Zones)
Traffic Exposure	Light to Medium Duty
Primary Requirements	Hygiene, Cleanability, Durability
Optional Layers	Ressi SLS Primer – 1, Ressi SLS 610 (if required)
Primer	Ressi EPO Primer LV
Topcoat	Ressi EPO Tough Might
Total System Thickness	Minimum 1000 Microns (Single Layer or Above)
Finish Type	Smooth, Semi-Gloss
Curing Time Before Use	48–72 Hours for Mild Traffic / 7 Days Full Cure
Key Benefits	Hygienic, Easy to Clean, Durable, Seamless Finish

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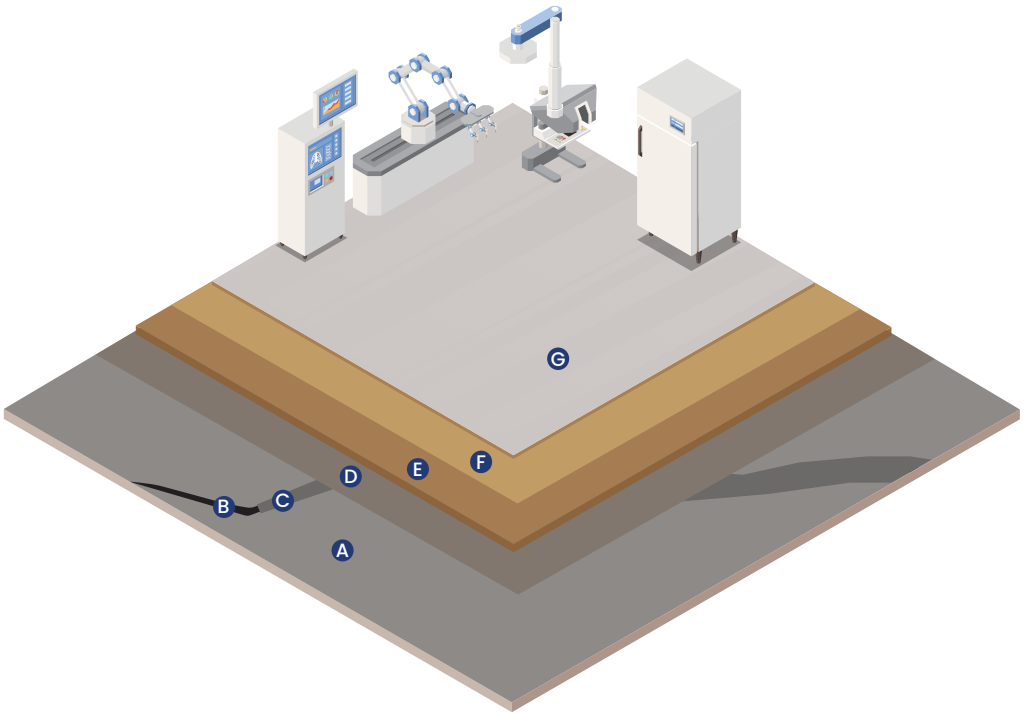
Conclusion

For hospitals and clinics in non-critical areas, the **Ressi EPO System – Hospital & Clinical** provides a seamless, hygienic, and easy-to-maintain epoxy flooring solution. The sequence — Surface Preparation **Ressi SLS Primer – 1** (if required) **Ressi SLS 610 (if required) Ressi EPO Primer LV Ressi EPO Tough Might** — ensures a durable, aesthetically clean, and value-driven finish perfectly suited for healthcare environments without requiring advanced antistatic or high-abrasion properties.

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 Tough Might

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