Epoxy Flooring System for – Automobile Service Workshops

By Ressichem Private Limited

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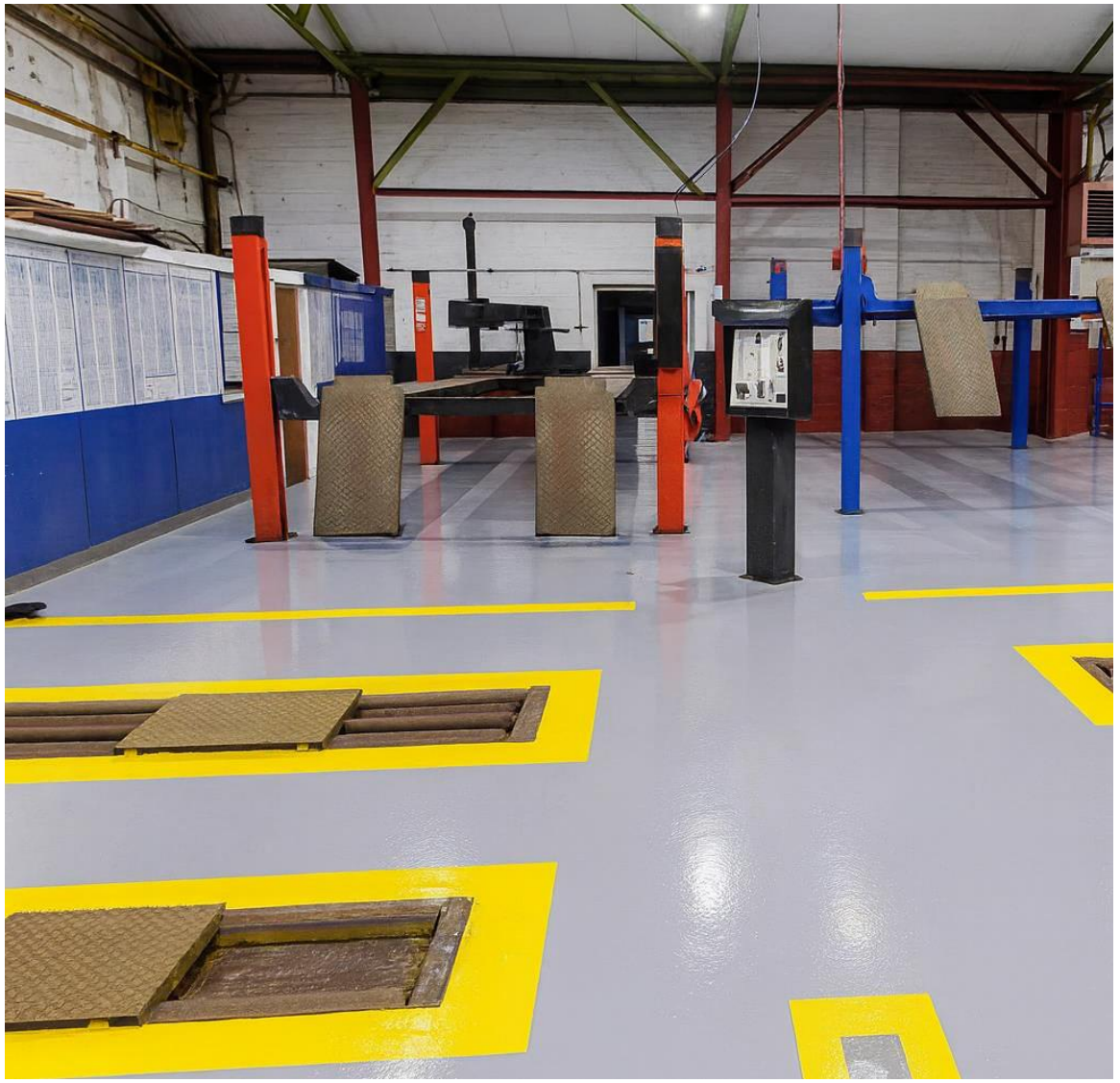
Why Epoxy Flooring for **Automobile Service Workshops**

Automobile service workshops demand flooring systems that can endure **constant mechanical load, impact, and exposure to oils, greases, and mild cleaning chemicals**. The floor must be **tough, slip-resistant, easy to clean**, and capable of handling the daily wear from hydraulic lifts, tool movement, and tire abrasion.

The **Epoxy Flooring System for – Automobile Service Workshops** is a **high-build, medium-duty system** engineered to deliver long-term mechanical durability and mild chemical tolerance. It combines Ressichem's high-performance primers, mid coats, and topcoats to ensure a **smooth, seamless, and highly serviceable floor surface** for automotive facilities.

This system is ideal for:

- Automotive maintenance and repair workshops
- Vehicle detailing and washing bays
- Parts and service areas
- Equipment maintenance zones
- Showroom back-end service sections



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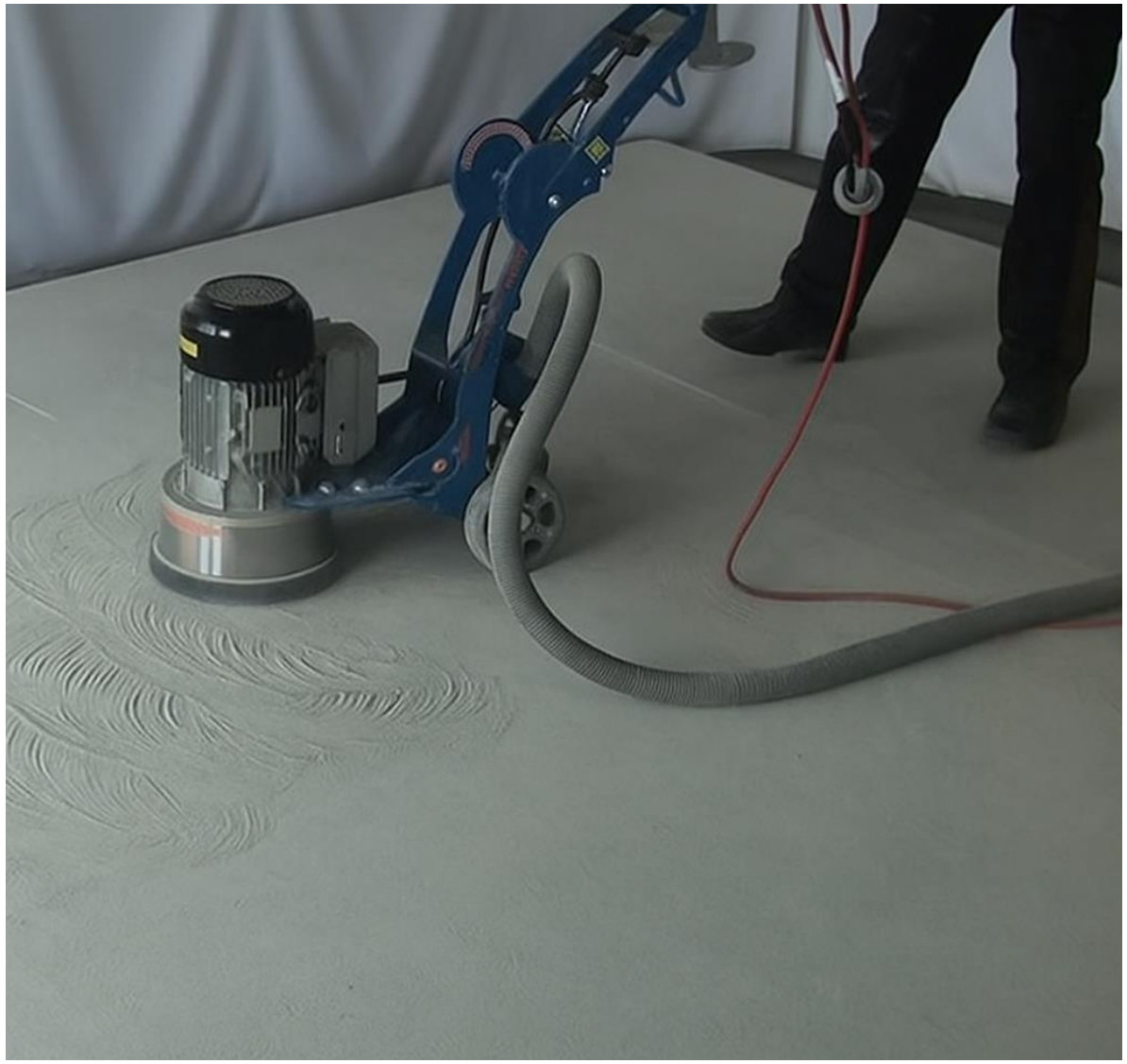
Step 1: Surface Preparation

Proper substrate preparation is essential for long-term adhesion and mechanical stability.

- Ensure a **sound, clean, and level concrete base** (minimum 25–30 MPa).
- Mechanically grind or shot-blast to remove laitance and contaminants.
- Fill cracks and voids using **Ressichem's recommended epoxy crack fillers**.
- Thoroughly vacuum the surface to remove loose dust.
- Confirm that **moisture content is below 5 %** before proceeding.



Step 2: Application of Ressi EPO Primer LV

Apply **Ressi EPO Primer LV**, a low-viscosity, solvent-free epoxy primer ensuring deep substrate penetration and strong bonding.

- Mix resin and hardener thoroughly in the specified ratio.
- Apply uniformly using a roller or brush.
- Avoid pooling; allow complete curing before the next coat.

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

For levelling and added impact resistance, apply **Ressi EPO Mid Coat S – GP**.

- Apply at a **minimum thickness of 1000 microns**; **2000 microns** are recommended for service bays and mechanical zones.
- Spread with a notched trowel or squeegee, followed by back-rolling.
- Allow to cure overnight or per ambient conditions.
- This layer may be **omitted** where the existing floor level is already satisfactory.

Step 4: Application of Final Epoxy Topcoat

Choose the appropriate topcoat depending on the presence of a mid coat:

- **If Mid Coat Applied:**
  Apply **Ressi EPO Tough Might Econo** at a **minimum thickness of 1000 microns** to provide a durable, easy-to-clean, and mildly chemical-resistant surface.
- **If Mid Coat Not Applied:**
  Apply **Ressi EPO Floor Plus Econo** at a **minimum thickness of 2000 microns** to achieve the full system build.
- Mix components thoroughly and apply with roller or squeegee for uniform coverage.
- Allow **48–72 hours** for mild traffic; **7 days** for full mechanical and chemical use.

Step 5: Floor Markings *(If Required)*

Where vehicle bays or movement zones need demarcation, apply **Ressi EPO Roll Coat** in the desired colors.

- Ensure the base coat is clean and cured.
- Mask areas carefully for sharp, defined lines.
- Allow adequate curing before reopening to traffic.

Note:

- The **total system thickness must be at least 2000 microns**.
- If no mid coat is used, use **Ressi EPO Floor Plus Econo** to achieve this build.
- For further details on **mixing ratios, pot life, recoat intervals, and coverage**, consult the relevant **product Technical Datasheets (TDS)** prior to application.

System Summary Table

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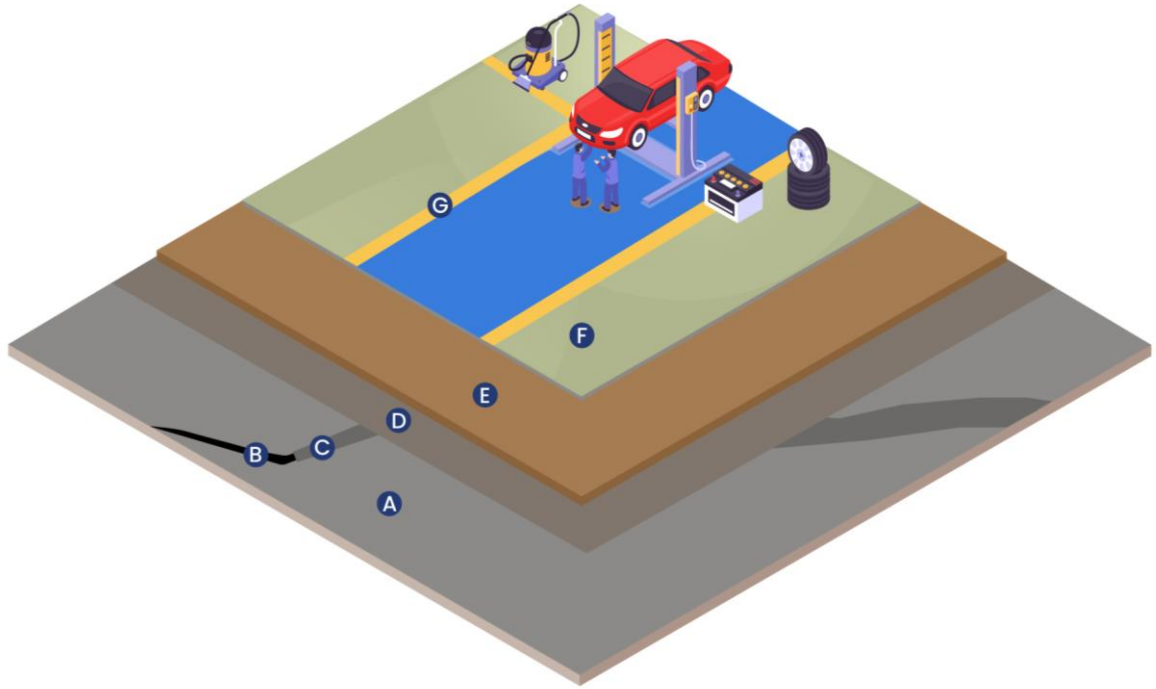
Parameter	Description
System Name	Epoxy Flooring System for – Automobile Service Workshops
Area Type	Automotive Maintenance and Repair Facilities
Traffic Exposure	Medium to Heavy Duty
Primary Requirements	Impact Strength, Oil & Mild Chemical Resistance, Abrasion Resistance
Primer	Ressi EPO Primer LV
Mid Coat (Optional)	Ressi EPO Mid Coat S – GP (1000–2000 microns)
Topcoat	Ressi EPO Tough Might Econo (with Mid Coat) / Ressi EPO Floor Plus Econo (without Mid Coat)
Floor Marking Coat (Optional)	Ressi EPO Roll Coat
Total System Thickness	Minimum 2000 Microns
Finish Type	Smooth, Semi-Gloss
Curing Time Before Use	48–72 Hours for Mild Traffic / 7 Days Full Cure
Key Benefits	Durable, Impact-Resistant, Mild Chemical Protection, Easy Maintenance

System Summary 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 Tough Might Econo / Ressi EPO Floor Plus Econo
G) Ressi EPO Roll Coat (Marking)



Thank You

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