

EPOXY FLOORING SYSTEM FOR AUTOMOBILE SERVICE WORKSHOPS



Introduction

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.

Recommended Use Cases

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

Step-Wise System Description

Step 1: Surface Preparation

- Proper substrate preparation is essential for long-term adhesion and mechanical stability.
- Ensure a sound, clean, and level concrete base.
- 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.
- service-oriented and dry food areas.

EPOXY FLOORING SYSTEM FOR AUTOMOBILE SERVICE WORKSHOPS



System Advantages

- **Mechanical Strength:** Designed for frequent impact and equipment movement.
- **Mild Chemical Resistance:** Tolerates oils, lubricants, and standard cleaning agents
- **Abrasion Resistance:** Withstands tire wear and tool drag.
- **Slip Control:** Provides a uniform, non-porous surface improving safety.
- **Ease of Maintenance:** Seamless and dust-free for easy cleaning.
- **Cost Efficiency:** "Econo" variant balances durability and affordability.

Maintenance Guidelines

- Clean regularly with neutral pH cleaners.
- Remove oil spills promptly to maintain gloss and safety.
- Avoid prolonged contact with aggressive degreasers or solvents.
- Inspect heavy-use zones periodically for wear and recoat when required.

System Summary Table

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

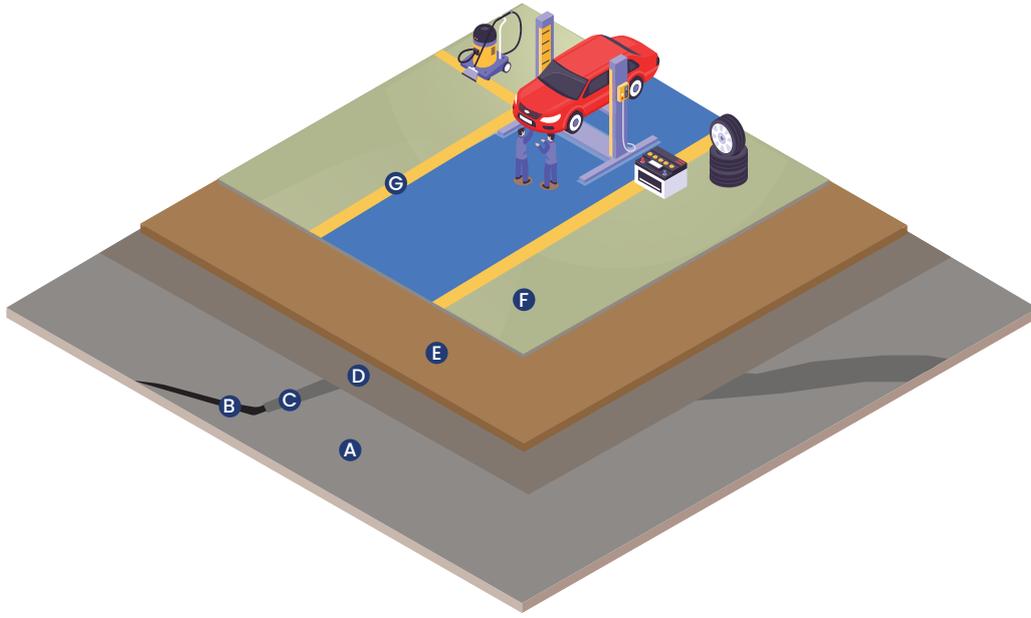
EPOXY FLOORING SYSTEM FOR AUTOMOBILE SERVICE WORKSHOPS

Conclusion

The Epoxy Flooring System for – Automobile Service Workshops delivers a mechanically durable, low-maintenance, and mildly chemical-resistant solution tailored to professional vehicle-service environments.

The sequence — Surface Preparation, Ressi EPO Primer LV, (Optional) Ressi EPO Mid Coat S – GP, Ressi EPO Tough Might Econo or Ressi EPO Floor Plus Econo, (Optional) Ressi EPO Roll Coat — ensures a robust, long-lasting, and easy-to-maintain flooring system for automotive facilities.

System Summary



- 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)