



# **Epoxy Flooring System for – Parking Areas with Moderate to Light Vehicle Load**

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By Ressichem Private Limited

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adding life and value to your property



# Why Epoxy Floorings at Parking Areas with Moderate to Light Vehicle Load

Parking areas designed for **light to moderate vehicle loads**, such as passenger cars and service vehicles, require a flooring system that offers **mechanical durability, abrasion resistance, and chemical tolerance**, while also maintaining a **clean, safe, and visually appealing surface**.

The **Epoxy Flooring System for – Parking Areas with Moderate to Light Vehicle Load** is a **medium-duty, high-build epoxy flooring solution** designed to perform effectively under consistent vehicular movement, tire friction, and mild exposure to automotive fluids. It combines **durability, easy maintenance, and a smooth finish** that enhances the overall look and functionality of covered parking spaces.

**Important Note:** Epoxy flooring systems for parking areas are generally **recommended for covered or partially covered spaces where UV exposure is minimal or non-existent**. For **areas exposed to direct sunlight**, such as open rooftop or outdoor parking zones, epoxy coatings may **yellow or discolor over time** due to UV sensitivity. If **discoloration is not a concern**, this system can still be used; however, for long-term color stability, a **UV-resistant polyurethane topcoat system** is recommended as an alternative.



# This system is ideal for

- Basement and multi-level parking areas
- Covered residential and commercial parking spaces
- Building podium parking decks
- Visitor and service vehicle parking areas
- Light circulation zones in institutional and retail parking facilities

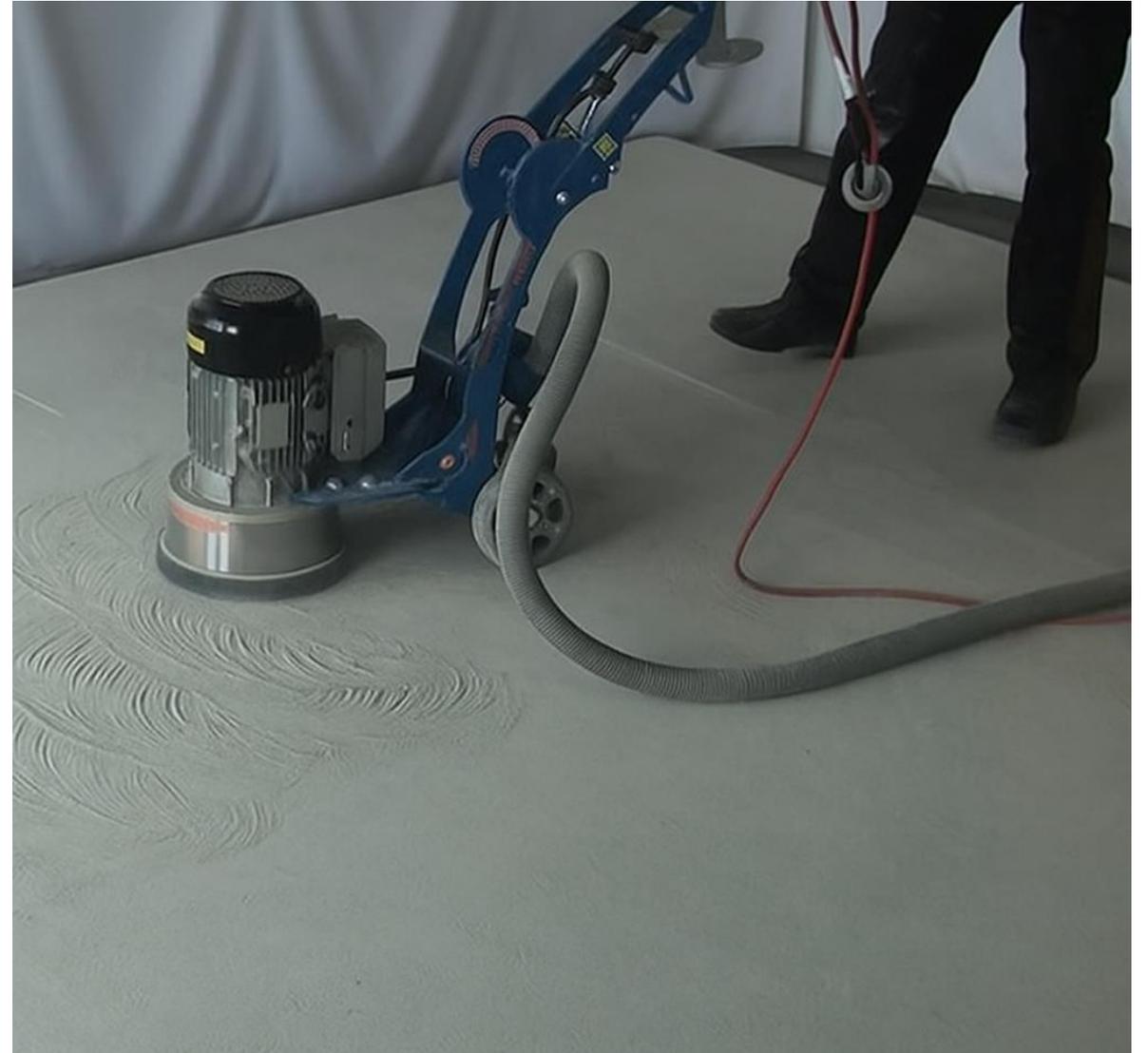


# Step 1: Surface Preparation

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All necessary surface repairs, including crack filling or substrate restoration, must be completed prior to the application of any epoxy flooring materials. Ressichem offers a range of suitable crack fillers and repair compounds, including non-shrink cementitious grouts, specifically designed for surface preparation and repair.

- Mechanically grind or shot blast the surface to remove contaminants, laitance, and weak layers.
- Repair all surface imperfections using Ressichem epoxy crack fillers.
- Thoroughly clean and vacuum the surface to eliminate dust and debris.
- Verify that substrate moisture content is **below 5%** prior to primer application.



# Step 2: Application of Ressi EPO Primer LV

Apply **Ressi EPO Primer LV**, a low-viscosity, solvent-free epoxy primer that ensures deep substrate penetration and excellent bonding strength.

- Mix resin and hardener components in the prescribed ratio.
- Apply uniformly using a roller or brush, avoiding puddles or excess build-up.
- Allow adequate curing time based on temperature and humidity before proceeding to the next layer.



## Step 3: Application of Ressi EPO Mid Coat S – GP (Optional)

Apply **Ressi EPO Mid Coat S – GP** where additional levelling or build thickness is required.

- Apply at a **minimum of 1000 microns**, with **2000 microns recommended** for optimum mechanical resistance and smoothness.
- Use a notched trowel or squeegee to spread evenly, then back-roll to remove trapped air.
- Allow overnight curing before applying the final topcoat.
- This step is **optional**, depending on the substrate condition and levelling needs.



# Step 4: Application of Final Epoxy Topcoat

Apply **Ressi EPO Tough Might** or **Ressi EPO Floor Plus**, depending on whether a mid coat is used.

- If **Ressi EPO Mid Coat S – GP** is used → apply **Ressi EPO Tough Might** at **1000 microns**.
- If **no mid coat** is used → apply **Ressi EPO Floor Plus** at **2000 microns minimum**.
- Apply using a roller or flat squeegee for a smooth, uniform finish.
- Allow **48–72 hours** before allowing light vehicle traffic and **7 days** for full curing.



# Step 5: Floor Markings (If Required)

For traffic direction, parking bay demarcations, or safety lines, apply **Ressi EPO Gloss Might** in contrasting colors.

- Apply only after the epoxy basecoat has fully cured.
- Use masking tape for crisp, accurate edges.
- For **cost-effective installations**, **Ressi EPO Roll Coat** may also be used for line marking or color zoning.

## Note:

- The **total system thickness must be a minimum of 2000 microns** for sufficient durability under vehicular loading.
- For **UV-exposed areas**, the use of this system may lead to **color change (yellowing)** over time. Consider UV resistant topcoats if color retention is a requirement.
- Always refer to **Technical Datasheets (TDS)** for detailed product guidance before installation.





# System Summary Table

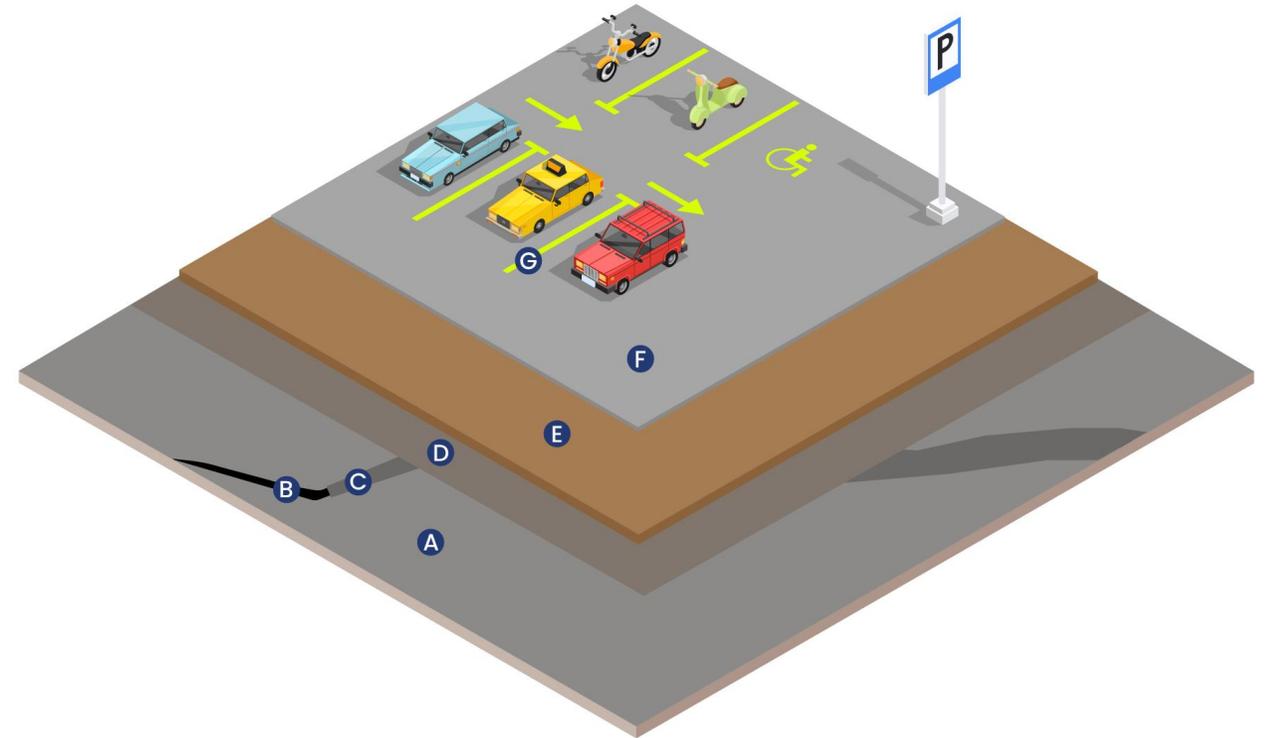


Parameter	Description
<b>System Name</b>	Epoxy Flooring System for – Parking Areas with Moderate to Light Vehicle Load
<b>Area Type</b>	Indoor / Covered Parking Zones
<b>Traffic Exposure</b>	Light to Medium Duty (Passenger Cars, Light Service Vehicles)
<b>Primary Requirements</b>	Mechanical Strength, Abrasion Resistance, Mild Chemical Resistance
<b>Primer</b>	Ressi EPO Primer LV
<b>Mid Coat (Optional)</b>	Ressi EPO Mid Coat S – GP (1000–2000 microns)
<b>Topcoat</b>	Ressi EPO Tough Might (with Mid Coat) / Ressi EPO Floor Plus (without Mid Coat)
<b>Marking Coat (Optional)</b>	Ressi EPO Gloss Might or Ressi EPO Roll Coat (Contrasting Colors)
<b>Total System Thickness</b>	Minimum 2000 Microns
<b>Finish Type</b>	Smooth, Gloss or Semi-Gloss
<b>Curing Time Before Use</b>	48–72 Hours for Light Traffic / 7 Days Full Cure
<b>UV Resistance</b>	Recommended for Covered Areas; May Yellow in Sunlight
<b>Key Benefits</b>	Durable, Chemically Resistant, Seamless, Easy to Clean, Cost-Effective

# System Summary diagram

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- 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 / Ressi EPO Floor Plus
- G) Ressi EPO Gloss Might / Ressi EPO Roll Coat (Marking)



# Thank You

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