

EPOXY FLOORING SYSTEM FOR RESIDENTIAL GARAGES & BASEMENTS



Introduction

Residential garages and basements are subject to low traffic and minimal mechanical or chemical exposure. Despite this, untreated concrete floors tend to dust, stain, and deteriorate over time. A structured epoxy flooring system provides a **durable, dust-free, and visually enhanced surface** suitable for such environments.

Recommended Use Cases

- Residential garages and private parking areas
- Home basements and storage rooms
- Personal workshops
- Service corridors or domestic maintenance areas

Step-Wise System Description

Step 1: Surface Preparation

- Mechanically grind or clean the substrate to remove contaminants.
- 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.
- Ensure the surface is sound, dust-free, and moisture content is below 5%.

Step 2: Application of Ressi SLS Primer – 1

- Latex-based primer applied to promote adhesion before self-levelling screed.
- Drying time: 2–4 hours (tack-free).

Step 3: Application of Ressi SLS 610 Self-Levelling Screed

- Provides a smooth, level base.
- Requires 7–14 days to release moisture before epoxy application.
- Verify moisture is below 5% prior to priming.

Step 4: Application of Ressi EPO Primer LV

- Low-viscosity epoxy primer to seal and strengthen the surface.
- Apply evenly and allow to cure overnight.

Step 5: Application of Ressi EPO Tough Might

- High-build solvent-free epoxy coating at minimum 1000 microns thickness.
- Apply in a Single layer, with full curing in 7 Days. Light traffic in 48 to 72 Hours.

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.

System Advantages

- Dust-free and seamless finish
- Easy to clean and maintain
- Resistant to household oils and mild chemicals
- Long-term durability with strong adhesion
- Available in decorative color options

Maintenance Guidelines

- Clean regularly with mild detergent and soft mop.
- Avoid acidic cleaners.
- Periodic recoat restores appearance and protection.

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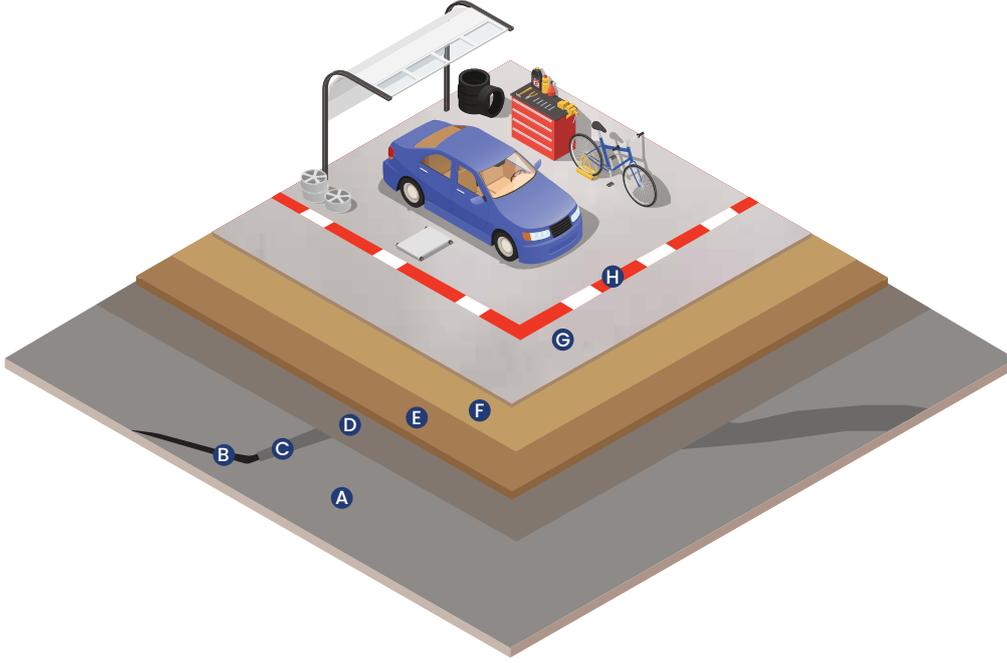
Epoxy Flooring System for Residential Garages & Basements

Parameter	Description
System Name	Residential Garage & Basement Epoxy Flooring
Area Type	Garages, Basements, Domestic Service Areas
Traffic Exposure	Light Duty
Primary Requirements	Dust-Free, Durable, Aesthetic
Optional Layers	Ressi SLS Primer – 1, Ressi SLS 610
Primer	Ressi EPO Primer LV
Topcoat	Ressi EPO Tough Might
Total System Thickness	Minimum 1000 Microns
Finish Type	Smooth, Semi-Gloss
Curing Time Before Use	7 Days Full Cure
Key Benefits	Durable, Easy to Maintain, Seamless Finish

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RESSICHEM[®]
adding life and value to your property

System Summary



- A. Cementitious Surface (Concrete slab or screed)
- B. Cracks and Damages (As per site condition)
- C. Crack Filler and Repairing material (As per Site Condition)
- D. Ressi SLS Primer - 1 (Optional)
- E. Ressi SLS 610 (Optional)
- F. Ressi EPO Primer LV
- G. Ressi EPO Tough Might
- H. Ressi EPO Tough Might (Marking)