



Application

RESION Epoxy Self-Levelling Floor is a solvent-free, coloured floor coating based on epoxy resin. The system consists of two components (A+B) and forms, after curing, a wear-resistant, seamless and liquid-tight finish for concrete and mineral substrates.

RESION Epoxy Self-Levelling Floor is the **third step** in the RESION flooring system.

The coating is suitable for areas where high mechanical and chemical resistance is required, such as:

- Production areas
- Warehouses
- Technical rooms
- (Parking) garage
- Workshops

Properties

- High chemical resistance
- Wear-resistant and liquid-tight
- Seamless surface with smooth structure
- Available in many colours
- Glossy finish (can reduce to semi-gloss over time)
- Can be overcoated with a matt topcoat



Technical Data

Property	Value
Specific gravity	1.87 g/cm ³
Compressive strength	± 98 N/mm ²
Flexural strength	± 63 N/mm ²
E-modulus	± 6350 N/mm ²
Porosity	None
Shrinkage	None
Temperature resistance	Continuous up to ± 70°C
Mechanical impact resistance	Excellent

Performance declaration (EN 13813:2002)

SR – B1.5 – AR0.5 – IR20

Fire classification: Class E (according to 2010/85/EU)

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Substrate

The substrate must be clean, dry, dimensionally stable, and free from dust, grease, and other contaminants. Cracks and holes can be repaired using **RESION Epoxy Repair Mortar**.

Suitable substrates include:

- Monolithic finished concrete floor (minimum class C20/25 or C28/35, flatness class 4)
- Cementitious screed (flatness class ≥ 3 , quality class $\geq$ Cw16)
- Anhydrite floor (flatness class ≥ 4 , quality class Cw16 and Fw4)

Cement- and gypsum-based substrates must be at least 28 days old.

Maximum residual moisture:

- Cement-based: $\leq 4\%$
- Gypsum-based: $\leq 1\%$

Environmental Conditions

- Application temperature: minimum 15°C, maximum 30°C
- Substrate temperature: minimum 10°C and at least 3°C above the dew point
- Relative humidity: maximum 70% during application and curing

Surface Preparation

For old or contaminated floors, all loose material, grease, oil, and dirt must be completely removed.

- Repair cracks and holes with epoxy repair mortar.
- Remove cement laitance and concrete residues by grinding or sanding.
- Roughen smooth substrates by dust-free shot blasting.
- Always vacuum thoroughly using an industrial vacuum cleaner.



Application

Mix component A, component B and the pigment thoroughly using a low-speed electric mixer. Pour the mixed resin onto the floor and spread evenly using a notched trowel or rake.

The pot life of the mixed product is approximately **30 minutes**.

For detailed instructions and best practices, refer to the supplied floor installation manual.

Consumption and Curing

- Consumption: 2.30–3.00 kg/m² (depending on substrate roughness)
- Walkable after approx. 24 hours (at 15°C)
- Fully chemically resistant after approx. 7 days (at 20°C)

System Build-Up

Step 1: Primer (depending on substrate)

- RESION Epoxy Primer FS101 (porous substrates)
- RESION Epoxy Primer FS107 (non-porous substrates)

Step 2: Floor improvement (optional)

- RESION Epoxy Scratch Coat FS206
- RESION Epoxy Self-Smoothing Layer FS207

Step 3: Epoxy floor layer

- RESION Epoxy Self-Levelling Floor FS303

Step 4: Matt finish (optional)

- RESION Matt Finish FS402
- RESION Matt Finish FS403 (resistant to tyre marks)

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Safety and Storage

During application, avoid contact with skin and eyes. Wear suitable protective gloves and safety glasses. Ensure adequate ventilation during use. Refer to the Safety Data Sheet (SDS) for detailed information regarding personal protection, storage, and waste disposal.

When properly stored in unopened containers, the product has a **shelf life of approximately 12 months**.