

Instructions for Use / Technical Data Sheet

CAIRCON - Floor Levelling Compound

CAIRCON Floor Levelling Compound is a self-flowing, self-levelling, fibre-reinforced factory dry mortar made from special cements, selected aggregate and additives to improve application properties. It is supplied premixed, ready for mixing with water.

Areas of application

Suitable as bonded levelling on sound wood substrates such as wooden floorboards, parquet and chipboard (V 100, etc.), unfinished concrete slabs, and calcium sulphate and cement screeds. For producing smooth, seamless floor surfaces and levelling floor unevenness and deviations from dimensional tolerances in accordance with DIN 18202 before laying marble and natural-stone coverings, resilient coverings, carpets, parquet, laminate and ceramic tiles and slabs.

For full-surface filling beneath parquet, the layer thickness must be at least 3 mm.

Suitable for levelling properly sanded mastic asphalt surfaces in quality classes IC10 and IC15 up to a layer thickness of 5 mm.

Once fully dried through, the Levelling Compound can be coated with CAIRCON Floor Coating or CAIRCON 2K Epoxy Resin Floor Coating.

Step 1. Substrate preparation

1. Cleaning the substrate: Check the adhesion capability of the substrate and remove loose pieces. The substrate must be sound, clean, dry, free from grease and solid. First completely remove dirt, cement slurry, oxide layers, limescale deposits or **release agents with CAIRCON Special Cleaner** and rinse thoroughly. Heavily soiled, oil-contaminated or new concrete or screed surfaces must additionally be **pre-treated with CAIRCON Etching Solution**. Treatment with etching solution removes stubborn contamination and deposits from new concrete surfaces (lime) and micro-roughens the surface. For large-scale contamination, we recommend shot blasting or, in extreme cases, replacing the affected areas.

If third-party products are used for substrate preparation, verify their compatibility and a satisfactory final result by preparing a test area BEFORE coating. When third-party products are used, no liability can be accepted for a proper application result.

2. Pre-treatment of cracks and holes: Completely remove flaking or unsound old coatings by stripping or sanding. First repair any existing cracks and holes with **CAIRCON 2K Epoxy Resin Mortar**.

3. The substrate must not exceed a maximum moisture content of:

Substrate	Max. moisture content
Unheated cement-bound screed	2.0 CM wt. %
Heated cement-bound screed	1.8 CM wt. %
Unheated calcium sulphate screed	0.5 CM wt. %
Heated calcium sulphate screed	0.5 CM wt. %

4. Preparation of wood substrates: Wood substrates must be resistant to torsion, sound, healthy and free from pests. Joist spacing should be at least 60 to 65 cm and floorboard thickness at least 22 mm.

Wooden floors must be sanded and screwed down. Wood substrates should be primed with a special adhesion primer. Wide joints between floorboards must be closed with a suitable filling material.

5. Close with fillers or sealants. If in doubt, always prepare a test area.

Step 2. Mixing

Mix in a clean container with clean, cold tap water (approx. 4.75 L per 25 kg bucket, slightly more if required) until lump-free and at a consistency suitable for application. A mixer with helical paddle, double-disc stirrer or mixing basket is recommended.

Mix at max. 600 rpm

Step 3. Application

1. Consistency for machine application: The suitable consistency is adjusted using a maximum flow spread of Ø 64 cm (determined with a 1.3 L test container on a level, non-absorbent substrate, e.g. on foil, after a 2-minute flow time). For greater layer thicknesses, reduce the flow spread or quantity of water insofar as levelling ability permits. During application, the floor Levelling Compound flows by itself, meaning that subsequent trowelling or sanding is unnecessary at low consistency. Optimum de-aeration and levelling of the material is achieved by working the surface with a CAIRCON Spiked Roller. When using mixing pumps, the flow spread must be observed. In areas exposed to moisture (max. water exposure class W2-I), suitable bonded waterproofing must be applied in accordance with DIN 18534-1.

2. Pour the fresh mortar onto the prepared substrate and spread it to the required layer thickness with a smoothing trowel or squeegee. For larger areas, the floor Levelling Compound can be mixed and pumped using a mixing pump. Follow the machine manufacturer's instructions. Material that is already setting must not be diluted with water or remixed.

3. Cleaning tools: Clean containers, tools, etc. with clean water immediately after use. Once cured, cleaning is possible only mechanically. In machine application, clean the machine and hoses no later than 20 minutes after the machine is stopped.

Working time

1. **Mixed floor Levelling Compound:** within min. 30 minutes

2. **Levelled:** within min. 20 minutes

3. **Application temperature / climate:** Room and substrate temperature must not fall below +10°C and must not exceed +30°C. Best workability is between +15°C and 25°C. Low temperatures delay hardening and higher temperatures accelerate it; also take the temperature of the mixing water into account.

Technical data

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Coverage	Consumption is 1.6 kg/m ² per mm of layer thickness Please note that the stated values are approximate only and may vary depending on the substrate. Determine exact consumption on the object.
Shelf life	approx. 24 months when properly stored. Protect from moisture.
Suitable for	use indoors and outdoors as an ideal substrate for various floor coverings such as linoleum, textile, PVC, laminate, ceramic and natural stone.
Disposal	Once cured, it can be disposed of as construction rubble.

Warnings and safety information

Hazard pictograms:



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: **Danger**

Hazard statements for health hazards:

- **H315** Causes skin irritation.
- **H317** May cause an allergic skin reaction.

Hazard statements for health hazards:

- **H318** Causes serious eye damage.
- **H335** May cause respiratory irritation.

Supplemental hazard statements:

- **EUH208** Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Precautionary statements - Prevention:

- **P280** Wear eye protection/face protection.

Precautionary statements - Response:

- **P301 + P312** IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
- **P303 + P361 + P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- **P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P333 + P317** If skin irritation or rash occurs: Get medical help.

Recommended additional products

Cleaning	CAIRCON Special Cleaner, CAIRCON Etching Solution
Substrate preparation	CAIRCON 2K Epoxy Resin Mortar
Pre-treatment for	CAIRCON Floor Coating, CAIRCON 2K Epoxy Resin Floor Coating
Tools	CAIRCON De-Aeration Roller, Spiked Shoes