

Processing instructions / Technical data sheet

CAIRCON - 2 Pack epoxy floor sealer CLEAR

The 2K water-based epoxy resin sealer is a clear, glossy 2K floor coating that is suitable for interior substrates. Suitable for coating garages, cellars, living and office spaces as well as rooms with higher loads, e.g. workshops, warehouses and production halls, parking decks, agriculture, etc.

It is transparent and low yellowing and is therefore also perfect for giving a surface coated with CAIRCON 2 Pack floor paint an additional brilliant shine.

Step 1: Surface preparation

1. Cleaning the surface: Check the surface for suitability and adhesion and remove any loose pieces. The surface must be sound, clean, dry, grease-free and firm. Remove all dirt, cement slurry, oxide layers, limescale deposits or separating agents with **CAIRCON Special pre-cleaner** and wash thoroughly. Heavily soiled, oil-contaminated or new concrete or screed surfaces should also be treated with the **CAIRCON Acid etching** to remove stubborn dirt and micro-roughen the surface.

2. Sanding: To achieve the best result, we strongly recommend sanding the surface well before coating. You can use a sanding machine or 240-280 grit sandpaper for this.

3. Treatment of cracks and holes: Repair existing cracks and holes with **CAIRCON 2 Pack epoxy repair mortar**. Unevenness and slopes can be evened out with the **CAIRCON Leveling floor compound**.

4. Priming the surface: To achieve better substrate adhesion, we recommend priming the floor with **CAIRCON 2 Pack epoxy floor primer**. Apply the primer thinly and evenly, whereby the surface should not "float".

If third-party products are used to prepare the substrate, their compatibility and the perfect final result must be checked by applying a test surface BEFORE coating. If third-party products are used, no liability can be accepted for a proper application result.

Notes:

- **Drying new concrete surfaces:** Allow new concrete surfaces to dry for **at least 4-6 weeks** before treatment. Mineral substrates must be free of sanding particles and other substances with a separating effect. Insulate the substrates sufficiently against soil moisture and prepare them with suitable measures such as blasting or milling.
- **Treatment of old coatings:** Remove peeling or unsound old coats completely by stripping or sanding. Old coats that adhere well and are in good condition should be cleaned and a test coat applied to a small area first. Paint over the surfaces undiluted if the coatings are compatible with each other.
- **Curing treated surfaces:** Allow treated surfaces to cure for **at least 2 weeks** before subjecting them to very heavy loads.

Step 2: Mixing the epoxy resin coating

Mix the material in the correct mixing ratio immediately before use. Stir the resin first and then add the hardener. Mix intensively with a low-speed agitator or a drill with stirring paddle **at a maximum of 450 rpm until** a streak-free and uniform color is achieved. Pour the material into another container and mix thoroughly again (avoid processing directly from the delivery container).

- Mixing ratio epoxy **transparent**: 2:1 by weight with hardener.

The pot life is 60-90 minutes. Process the mixed material within the specified pot life. Material that has not been processed after this period can no longer be used and must be **disposed of properly**.

IMPORTANT:

Mix at max. 450 revolutions per minute!

Do not use at temperatures above 25°C!

Failure to observe these instructions may result in a chemical overreaction: The product will then become hot and hard in a very short time. In this case, allow the bucket with the product to cool down before touching it and ensure good ventilation.

Step 3: Processing

1. Application methods: The material can be brushed or rolled on. For a convenient and even application, we recommend using a **CAIRCON floor roller**. Always work fresh on fresh for a uniform appearance. Apply the material evenly (stick to the specified material consumption) and roll in a criss-cross pattern.

2. Deaerate: If air bubbles are trapped, deaerate approx. 5-10 minutes after application in a crosswise motion with a **CAIRCON epoxy spiked roller**. Use **CAIRCON spiked soles** to avoid damaging the already coated surface. For larger areas, work with several people and divide the area into sections if necessary. Always use material from one batch on contiguous surfaces.

3. Multi-coat application: 2 coats are recommended to achieve a sufficient wear layer and coverage.

4. Anti-slip: You can use **quartz sand or glass beads** as an anti-slip agent. Sprinkle the appropriate amount into the last layer of the sealer and, if necessary, apply another very thin layer of the sealer.

5. Coatings of any exterior floor surfaces: Epoxy resin coatings are only UV-resistant to a limited extent. This means that the outdoor coating may chalk slightly over time, resulting in a white/yellowish discoloration. To avoid this phenomenon, an additional layer of **CAIRCON - 2 Pack epoxy floor sealer CLEAR** with integrated UV protection can be applied to the outdoor surfaces within 24 hours of completing the coating. Please note that this product produces a high-gloss surface.

Notes:

- Start by painting the edges with a **brush** to achieve a clean edge. We recommend ordering our **CAIRCON paintbrush set** (35mm, 50mm, 70mm).
- Use a new roller for each new coat to achieve an even result.
- The surface can be walked on the next day, but full load-bearing capacity is **only achieved after approx. 7-9 days**.

- The coating must not come into contact with water until it is fully cured in order to avoid white chalking and streaks. These can be neutralized with vinegar essence.
- **The sealer should be recoated within 8 hours.** If the intermediate drying time is longer, sand before applying the next coat to avoid adhesion problems. Use 240-280 grit sandpaper for this purpose.

Drying time

Dust dry	Walkable	Full dehydration
Approx. 1-2 hours	After 24 hours	After 7-9 days

Please note that these times only apply at an optimum air temperature of 20-25°C and humidity of 40-60% and may vary in the event of changes.

Technical data

Processing conditions	Do NOT apply at temperatures below +15°C / above +25°C and humidity above 70%. The temperature should also not fall below +15°C during drying and subsequent curing of approx. 8 days.
Optimal processing conditions	Air temperature: 20-25°C; object temperature > 15°C; relative humidity: 40-60%. Air velocity: at least 0.4 m/s (ensure good ventilation).
Consumption	Approx. 250g/m ² , per coat. 2 coats are recommended.
Shelf life	Approx. 24 months if stored properly from +5°C to +25°C in unopened containers. Protect from frost and moisture.

Waste disposal

Cured epoxy resin products are not waste requiring special monitoring and should generally be disposed of as household-type commercial waste. Empty metal or plastic containers should be disposed of in accordance with the Packaging Ordinance, i.e. recyclable materials must be sent for recycling.

Safety and protective measures

During processing, the trade association rules for safety and health at work BGR 500, chapter 2.29, and the current EC safety data sheets must be observed. In the liquid state, the products are hazardous to water and must therefore not be allowed to enter bodies of water. Keep **out of reach of children**. Do not allow to enter the sewage system. Empty containers completely. Product residues that are still liquid must be taken to the local collection point for old paints/varnishes or disposed of in accordance with local regulations.

Recommended additional products

Cleaning	CAIRCON - Acid etching, CAIRCON - Special pre-cleaner
Substrate preparation	CAIRCON - 2 Pack epoxy floor primer, CAIRCON - Leveling floor compound, CAIRCON - 2 Pack epoxy repair mortar
Tools	CAIRCON nail soles, CAIRCON floor roller, CAIRCON epoxy spiked roller, CAIRCON brush set
Similar products	CAIRCON - 2 Pack terrace paint, CAIRCON - 2 Pack tile paint, CAIRCON - 2 Pack floor paint, CAIRCON - Floor paint

