

Processing instructions / Technical data sheet

CAIRCON - 2 Pack floor paint

The 2 Pack water-based epoxy resin floor coating is a hard-wearing 2-component coating for interior floors. It is ideal for a wide range of applications such as garages, basements, living and working spaces as well as areas with intensive use such as workshops, storage and production facilities, parking decks and agricultural areas.

Check the color shade for color accuracy by applying a test coat BEFORE use - no complaints/exchanges possible after use! On contiguous surfaces, only use colors from the same delivery or with identical batch numbers! Material/tools with the same consistency and batch number must also be used when touching up the surface.

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: For coloured coatings with the paint, it is recommended to pre-coat the floor with **CAIRCON Floor primer** to optimize adhesion. For clear paint, the use of **CAIRCON 2 Pack epoxy floor primer** is recommended.

If third-party products are used to prepare the surface, 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 surfaces must be free of sanding particles and other substances

with a separating effect. Insulate the surfaces 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 epoxy resin paint

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 **colored**: 10:1 by weight with hardener.
- 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. Use of color chips: If required, you can sprinkle the decorative **CAIRCON color chips** into the still damp 2nd coat of the paint, allow to dry for 24 hours and then seal with **CAIRCON 2 Pack epoxy floor sealer clear**.

5. Slip resistance: To make the surface more slip-resistant, we recommend using **CAIRCON - Silicate-based anti-slip agent**. Sprinkle the desired amount into the last layer of the paint and, if necessary, apply a very thin coat of the paint.

6. Top coat for high gloss: For a high-gloss surface, we recommend an additional top coat with **CAIRCON 2 Pack epoxy floor sealer CLEAR**.

Notes:

- Start by painting the edges with a **brush** to obtain 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 paint should be repainted 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.
- **Coatings for any exterior floor surfaces:** Epoxy resin coatings are only UV-resistant to a limited extent. This means that the coating in outdoor areas 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.

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
Surface preparation	CAIRCON - Floor primer, CAIRCON - 2 Pack epoxy floor primer, CAIRCON - Leveling floor compound, CAIRCON - 2 Pack epoxy repair mortar
Additional sealing	CAIRCON - 2 Pack epoxy floor sealer, CAIRCON paint chips, CAIRCON - Silicate-based anti-slip agent
Tools	CAIRCON nail soles, CAIRCON floor roller, CAIRCON epoxy spiked roller, CAIRCON brush set
Similar products	CAIRCON - 2 Pack floor paint MATT, CAIRCON - Floor paint, CAIRCON - 2 Pack terrace paint, CAIRCON - 2 Pack tile paint