

Application Instructions / Technical Data Sheet

CAIRCON - 2K Tile Paint

2-component tile paint is a high-opacity, impact-resistant water-based paint. It is ideal for renovating floor and wall tiles. Thanks to rapid drying, tile paint provides high resistance as well as scratch and impact resistance. Soiling can also be removed easily.

Check the colour shade for accuracy by applying a test coat BEFORE use - no complaints/exchanges are possible after application. On continuous surfaces, use only colour shades from the same delivery or with an identical batch number. For repairs within a surface, material/tools of the same consistency and batch number must also be used.

Step 1. Substrate Preparation

1. **Cleaning the substrate:** Before coating, the tile surface must be completely free of grease and other contamination. For thorough degreasing and cleaning, we recommend **using our CAIRCON - Special Degreaser**. First remove coarse dirt with a cloth or sponge. Then spray CAIRCON - Special Degreaser evenly onto the surface, allow it to act for 3-5 minutes without drying, and work the surface with a cloth, brush or scrubber. Wipe thoroughly with clean water to remove all residues and allow the surface to dry completely before further coating.

2. **Sanding:** Improved adhesion of tile paint can be achieved by sanding the surface with fine sandpaper (180-240 grit). Existing coatings should be removed before coating. Glazed **tiles and tiles with a special coating (beading effect) must always be sanded so thoroughly before coating** that this coating is removed without residue, otherwise serious adhesion problems may occur.

3. Before painting, remove old silicone joints at edges if necessary. New, clean silicone can be injected after painting.

4. **Priming the substrate:** Before applying our tile paint, coat the **substrate with CAIRCON - Tile Primer**.

If products from third-party manufacturers are used for substrate preparation, their compatibility and a satisfactory final result must be verified by preparing a test area BEFORE coating. No liability can be accepted for proper application results when third-party products are used.

Step 2. Mixing Epoxy Resin Paint

1. Mix the material in the correct mixing ratio (coloured: 10:1 / clear: 2:1) **ONLY IMMEDIATELY BEFORE APPLICATION**. First stir the base compound, then add hardener and mix thoroughly with a slow-running mixer or drill fitted with a **mixing paddle** at max. 450 rpm until a streak-free, uniform colour shade is obtained. Transfer the material to another container and mix thoroughly again (do not apply from the delivery container).

- Mixing ratio, coloured **epoxy**: 10:1 by weight with hardener.
- Mixing ratio, transparent **epoxy**: 2:1 by weight with hardener.

3. **Pot life is 90 min.** Apply the mixed material within the stated pot life. Material not applied after this time has elapsed can no longer be used and must be disposed of properly.

IMPORTANT: Mix at max. 450 revolutions per minute. Do not apply at temperatures above 25°C. Failure to observe these instructions may result in a chemical overreaction: the product will become hot and hard within a very short time. In this event, allow the bucket containing the product to cool before touching it and ensure good ventilation.

Step 3. Application

1. **Application** methods: The material can be applied by brush or roller. For convenient, even application, we recommend using a **CAIRCON Floor Roller**. Always work wet-on-wet for a uniform appearance. When rolling, apply the material evenly (observe the specified consumption) and back-roll in a cross pattern.

2. **Multi-coat** application: To achieve a sufficient wearing layer and opacity, and because the layer thickness is low, heavier mechanical loads may damage the sealer film; 2 coats are therefore **always recommended**.

3. **2K tile paint** should be recoated after an **intermediate drying** time of at least 12 hours, which may extend to up to 48 hours depending on drying conditions, layer thickness, surface condition, temperature **and humidity**. **Optimum:** after 24 hours. The second coat may be applied as soon as the first layer is dry and touch-dry. If the intermediate drying time exceeds 48 hours, sand with 240-280 grit sandpaper before the next coat to avoid adhesion problems.

4. **Final coating:** For a high-gloss surface, we recommend an additional final coat with CAIRCON - **2K Epoxy Resin Coating CLEAR** (in outdoor areas, use of a product **with integrated UV protection** is recommended). Note that the coating has a glossy finish.

Notes:

- Start by painting the edges with a brush to obtain a clean edge. We recommend ordering our CAIRCON - **Paint Brush Set for this** purpose (35mm, 50mm, 70mm).
- Use a new roller for each new coat to achieve an even result.
- The surface can be walked on the following day, but full load-bearing capacity is **only reached 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 neutralised with vinegar essence.

IMPORTANT: Before painting larger areas, always prepare a test area first and check sufficient adhesion and the required colour shade when dry.

Drying Times

Please note: These times apply only at an optimum air temperature of 20-25°C and humidity of 40-60% and may vary if these conditions change.

dust-dry	walkable	fully cured
1-2 hours	24 hours	7-9 days

Technical Data

Optimum Application Conditions	Air temperature: 20-25°C; object temperature > 15°C; relative humidity: 40-60%. Air velocity: min. 0.4 m/s (ensure good ventilation).
Application Conditions	DO NOT apply at temperatures below +15°C or above +25°C, or at humidity above 70%. During drying and subsequent curing of approx. 8 days, the temperature should also not fall below +15°C.
Shelf Life	Approx. 24 months when unopened containers are properly stored at +5°C to +25°C. Protect from frost and moisture.
Areas of Application	Tiles in indoor and outdoor areas.
Consumption	Approx. 250-350g/m ² per coat. 2 coats are recommended.

Disposal

Cured epoxy resin products are not waste requiring special supervision and should generally be disposed of in the same manner as household-like commercial waste. Metal or plastic containers emptied of residues should be disposed of in accordance with packaging regulations, i.e. recyclable materials must be sent for recycling.

Recommended Additional Products

Cleaning	CAIRCON Special Degreaser
Substrate Preparation	CAIRCON Tile Primer
Additional Sealing	CAIRCON 2K Floor Sealer
Tools	CAIRCON Floor Roller, CAIRCON Spiked Roller, CAIRCON Spiked Shoes
Similar Products	CAIRCON 2K Tile Paint (Matt)

Warning and Safety Information

Component A (Base)

Hazard pictograms: Not required

Signal word: None

Supplemental hazard information: None

Safety Instructions:

- **P101** If medical advice is needed, have product container or label at hand.
- **P102** Keep out of reach of children.

Component B (Hardener)

Hazard pictograms:



GHS05
Corrosion

Signal word: Danger

Hazard statements for health hazards

- **H318** Causes serious eye damage.

Supplemental hazard information: None

Precautionary statements - Prevention:

- **P233** Keep container tightly closed.

Precautionary statements - Response:

- **P302 + P352** IF ON SKIN: Wash with plenty of water and soap.
- **P337 + P317** If eye irritation persists: Get medical help.

