

Application Instructions / Technical Data Sheet

CAIRCON - 2K Epoxy Resin Balcony Coating

CAIRCON - 2K Epoxy Resin Balcony Coating is a highly abrasion-resistant and chemical-resistant water-based 2K floor coating. It is suitable for balconies, conservatories, garages, cellars, residential and office rooms, as well as heavily used areas such as workshops, warehouses and production halls, parking decks and agricultural premises. This coating provides high scratch and impact resistance, withstands forklift traffic and can be finished in a chosen colour. Mechanical resistance depends primarily on the strength of the substrate.

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: Check that the substrate is sound and remove loose material. The substrate must be sound, clean, dry, free of grease and firm. First remove all dirt, cement laitance, oxide layers, limescale deposits or release **agents with CAIRCON - Special Cleaner** and wash thoroughly. Heavily soiled, oil-contaminated or new concrete or screed surfaces must additionally be **pretreated with CAIRCON - Etching Solution**. Treatment with our Etching Solution removes stubborn soiling and deposits from new concrete surfaces (lime) and produces a finely roughened surface. For extensive contamination, we recommend shot blasting or, in extreme cases, replacing affected areas.

2. Pretreatment of mineral substrates: First repair any cracks and holes with **CAIRCON - 2K Epoxy Resin Mortar**. Level unwanted unevenness and slopes **with CAIRCON - Levelling Compound**. Then precoat the floor with **CAIRCON - Floor Coating Primer for optimised adhesion**.

3. Pretreatment of a tiled substrate: Improved adhesion of Balcony Coating 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 fully and thoroughly sanded before coating so that this coating is removed without residue**, otherwise serious adhesion problems may occur.

4. Priming the substrate: Before application, it is recommended to prime tiled **substrates with CAIRCON - Tile Primer** and other mineral **substrates with CAIRCON - Floor Coating Primer**.

Allow new concrete surfaces to dry out for at least 4-6 weeks before treatment. Mineral substrates (set, dimensionally stable and sound) must be free from friable material and other bond-breaking substances (e.g. rubber abrasion, grease, oils, unsuitable primers, etc.). Substrates must be adequately insulated against rising moisture. Prepare the substrate using suitable measures such as blasting or milling.

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 60-90 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. Caircon - 2K Epoxy Resin Floor Coating 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. **Slip resistance**: CAIRCON - Silicate-Based **Anti-Slip Additive may be used as an anti-slip** additive. Broadcast the appropriate quantity into the final layer and, if required, seal over again very thinly.

5. **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 CAIRCON - 2K Epoxy Resin Coating CLEAR 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 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	Mineral substrates and tiles in indoor and outdoor areas.
Consumption	Approx. 250g/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.

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**

- **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.

Hazard statements for health hazards

Recommended Additional Products

Cleaning	CAIRCON - Special Cleaner, CAIRCON - Special Pre-Cleaner
Substrate Preparation	CAIRCON - Tile Primer, CAIRCON - Epoxy Primer, CAIRCON - 2K Epoxy Resin Mortar , CAIRCON - Levelling Compound
Additional Sealing	CAIRCON - 2K Floor Sealer, CAIRCON - Colour Chips, CAIRCON - Silicate-Based Anti-Slip Additive
Tools	CAIRCON - Floor Roller, CAIRCON - Spiked Roller, CAIRCON - Paint Brush Set, Spiked Shoes
Similar Products	CAIRCON - 2K Tile Paint (Matt), CAIRCON - 1K Floor Coating