

# Application Instructions / Technical Data Sheet

## CAIRCON - 2K Clear Epoxy Resin Sealer

CAIRCON 2K Epoxy Resin Sealer is a clear, glossy 2K floor coating suitable for interior substrates. It is suitable for coating garages, basements, residential and office spaces, as well as areas exposed to higher loads, e.g. workshops, storage and production halls, parking decks and agricultural areas.

The sealer is transparent and has low yellowing, making it perfect for giving a surface coated with CAIRCON 2K Epoxy Resin Coating additional brilliant gloss.

### Step 1. Substrate preparation

**1. Cleaning the substrate:** Check that the substrate is suitable and provides adequate adhesion, and remove loose material. The substrate must be sound, clean, dry, free from grease and solid. Completely remove dirt, cement slurry, oxide layers, limescale deposits or **release agents with CAIRCON Special Pre-Cleaner** and rinse thoroughly. Heavily soiled, oil-contaminated or new concrete or screed surfaces should **additionally be treated** with CAIRCON Etching Solution to remove stubborn contamination and micro-roughen the surface.

**2. Sanding:** To achieve the best result, we strongly recommend sanding the substrate thoroughly before coating. A sanding machine or 240-280 grit sandpaper can be used for this purpose.

**3. Treatment of cracks and holes:** Repair existing cracks and holes with CAIRCON Epoxy Resin Mortar. Unevenness and gradients can be **levelled with CAIRCON Levelling Compound**.

**4. Priming the substrate:** To achieve better bonding to the substrate, we recommend priming the floor with CAIRCON 2K Epoxy Resin Primer. Apply the primer thinly and evenly; the surface should not be flooded.

**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.**

#### Notes:

- **Drying new concrete surfaces:** Allow new concrete surfaces to dry for at **least 4-6 weeks** before treatment. Mineral substrates must be free from sanding particles and other separating substances. Adequately isolate the substrates against rising ground moisture and prepare them by suitable methods such as blasting or milling.
- **Treatment of old coatings:** Completely remove flaking or unsound old coatings by stripping or sanding. Well-adhering old coatings in good condition should be cleaned and initially test-coated on a small area. Recoat the surfaces undiluted if the coatings are compatible with one another.
- **Curing treated surfaces:** **Allow** treated surfaces to cure for at least 2 weeks before **exposure to very heavy loads**.

### Step 2. Mixing the epoxy resin coating

Mix the material in the correct mixing ratio immediately before application. First stir the resin, then add the hardener. Mix intensively with a slow-running mixer or a drill with mixing paddle at a maximum of **450 rpm until** a streak-free, uniform colour is obtained. Transfer the material to another container and mix thoroughly again (avoid applying directly from the delivery container).

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

**Pot life is 60-90 minutes.** Apply the mixed material within the specified pot life. Material that has not been applied when this period expires can no longer be used and must **be disposed of** properly.

**IMPORTANT:**

**Mix at a maximum of 450 revolutions per minute.**

**Do not apply at temperatures above 25°C.**

**Failure to follow these instructions may cause an excessive chemical reaction: the product will become hot and harden in a very short time. In this case, 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 and even application, we **recommend using a CAIRCON Floor Roller**. Always work wet-on-wet for a uniform appearance. Apply the material evenly (comply with the specified coverage) and cross-roll.

**2. De-aeration:** If air bubbles are trapped, de-aerate approx. 5-10 minutes after application by **cross-rolling with a CAIRCON Epoxy Spiked Roller. Wear CAIRCON Spiked Shoes** so as not to damage the already coated surface. On larger surfaces, work with several people and divide the surface into sections if necessary. Always use material from one batch on continuous surfaces.

**3. Multi-coat application:** 2 coats are recommended to achieve an adequate wearing **layer and** opacity.

**4. Slip resistance:** Quartz sand or glass beads **can be used as an anti-slip additive**. Scatter the appropriate quantity into the final coat and, if required, over-seal very thinly with the product.

**5. Coatings on floor areas possibly located outdoors:** Epoxy resin coatings have only limited UV resistance. This means that outdoors the coating may chalk slightly over time, resulting in white/yellowish discolouration. To prevent this effect, within 24 hours after completing the coating an additional coat of CAIRCON 2K Epoxy Resin Clear Floor **Sealer in the version with integrated UV** protection can be applied to outdoor surfaces. Please note that this product produces a high-gloss surface.

**Notes:**

- Begin by brushing the edges to **obtain** a clean edge. We recommend ordering our CAIRCON Paint Brush **Set for this purpose** (35 mm, 50 mm, 70 mm).
- 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 **achieved only after approx. 7-9 days**.
- The coating must not come into contact with water until fully cured in order to avoid white chalking and streaks. These can be neutralised with concentrated vinegar.
- **2K epoxy resin clear floor sealer should be recoated within 8 hours**. If the intermediate drying period is longer, sand before the next coat to avoid adhesion problems. Use 240-280 grit sandpaper.

### Drying times

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

Please note that 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.

### Technical data

<b>Application conditions</b>	<b>Do NOT</b> apply at temperatures below +15°C or above +25°C, or at humidity above 70%. During drying and the subsequent curing period of approx. 8 days, the temperature should also not fall below +15°C.
<b>Optimum application conditions</b>	Air temperature: 20-25°C; surface temperature > 15°C; relative humidity: 40-60%. Air velocity: min. 0.4 m/s (ensure good ventilation).
<b>Coverage</b>	Approx. 250 g/m <sup>2</sup> per coat. 2 coats are <b>recommended</b> .
<b>Shelf life</b>	approx. 24 months when unopened containers are properly stored at +5°C to +25°C. Protect from frost and moisture.

### Disposal

Cured epoxy resin products are not waste requiring special monitoring and should generally be disposed of as commercial waste similar to household waste. Completely empty metal or plastic containers must be disposed of in accordance with packaging regulations, i.e. recyclable materials must be submitted for recycling.

### Recommended additional products

<b>Cleaning</b>	<b>CAIRCON</b> Etching Solution, <b>CAIRCON</b> Special Pre-Cleaner
<b>Substrate preparation</b>	<b>CAIRCON</b> 2K Clear Epoxy Resin Primer, <b>CAIRCON</b> Levelling Compound, <b>CAIRCON</b> Epoxy Resin Mortar
<b>Tools</b>	<b>CAIRCON</b> Spiked Shoes, <b>CAIRCON</b> Floor Roller, <b>CAIRCON</b> Epoxy Spiked Roller, <b>CAIRCON</b> Paint Brush Set
<b>Similar products</b>	<b>CAIRCON</b> 2K Balcony Paint, <b>CAIRCON</b> 2K Tile Paint, <b>CAIRCON</b> Epoxy Resin Floor Coating, <b>CAIRCON</b> 1K Floor Coating

### Warnings and safety information

#### Component A (base)

Hazard pictograms:



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark



**GHS09**  
Environment

#### Component B (hardener)

Hazard pictograms:



**GHS09**  
Environment



**GHS07**  
Exclamation mark

**Signal word: Danger**

**Hazard statements for health hazards**

- **H314** Causes severe skin burns and eye damage.
- **H317** May cause an allergic skin reaction.

**Hazard statements for environmental hazards:**

**Signal word: Warning**

**Hazard statements for health hazards:**

- **H315** Causes skin irritation.
- **H317** May cause an allergic skin reaction.
- **H319** Causes serious eye irritation.

**Hazard statements for environmental hazards:**

- **H411** Toxic to aquatic life with long lasting effects.

**Supplemental hazard statements: none**

**Precautionary statements - Prevention:**

- **P262** Do not get in eyes, on skin, or on clothing.
- **P280** Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statements - Response:**

- **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.

**Precautionary statements - Storage:**

- **P402 + P404** Store in a dry place. Store in a closed container.
- **P410 + P412** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

- **H411** Toxic to aquatic life with long lasting effects.

**Supplemental hazard statements:**

- **EUH205** Contains epoxy constituents. May produce an allergic reaction.

**Precautionary statements:**

- **P102** Keep out of reach of children.

**Precautionary statements - Prevention:**

- **P262** Do not get in eyes, on skin, or on clothing.
- **P273** Avoid release to the environment.
- **P280** Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Precautionary statements - Response:**

- **P303 + P361 + P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- **P305 + P351 + P338** If skin irritation or rash occurs: Get medical advice/attention.
- **P333 + P313** If skin irritation or rash occurs: Get medical advice/attention.
- **P337 + P313** If eye irritation persists: Get medical advice/attention.
- **P391** Collect spillage.

**Precautionary statements - Disposal:**

- **P501** Dispose of contents/container at a suitable recycling or disposal facility.



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