

Application Instructions / Technical Data Sheet

CAIRCON - 2K Clear Epoxy Resin Primer

CAIRCON - 2K Clear Epoxy Resin Primer is optimum substrate preparation for **CAIRCON - 2K Epoxy Resin Floor Coating CLEAR**. The primer acts as a bonding agent and thus increases the adhesion and durability of epoxy resin floor coatings. The product consists of 2 components (resin and hardener), which are mixed together.

Step 1. Substrate Preparation

1. Cleaning the substrate: Check that the substrate is suitable and sound, and remove loose material. The substrate must be sound, clean, dry, free of grease and firm. Completely remove dirt, cement laitance, 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 give the surface a micro-fine texture.

2. Sanding: For the best result, we strongly recommend thoroughly sanding the substrate before coating. Use a sanding machine or 240-280 grit sandpaper.

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

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.

Notes:

- **Drying new concrete surfaces:** Allow new concrete surfaces to dry out **for at least 4-6 weeks** before treatment. Mineral substrates must be free from friable material and other bond-breaking substances. Adequately insulate substrates against rising moisture and prepare them by suitable measures such as blasting or milling.
- **Treatment of existing coatings:** Completely remove flaking or unsound existing coatings by stripping or sanding. Firmly adhering, well-preserved existing coatings should be cleaned and first receive a test coat on a small area. Overcoat the surfaces undiluted if the coatings are compatible.

Step 2. Mixing Epoxy Resin Coating

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

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

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. Apply the material evenly (observe the specified consumption) and back-roll in a cross pattern.

2. Deaerating: If air bubbles are trapped, deaerate approximately 5-10 minutes after application in a **cross pattern using a CAIRCON Epoxy Spiked Roller**. **Wear CAIRCON Spiked Shoes** to avoid damaging the already coated surface. On larger areas, work with several people and divide the surface into sections if necessary. Always use material from one batch on continuous surfaces.

3. Coating outdoor floor areas, if applicable: Epoxy resin coatings have only limited UV resistance. This means that outdoors the coating may chalk slightly over time, resulting in a white/yellowish discolouration. To avoid this effect, within 24 hours after completion of coating apply an additional layer of CAIRCON - 2K Epoxy **Resin Floor Sealer CLEAR with** integrated UV protection to outdoor areas. Please note that this product produces a high-gloss surface.

Technical Data

Material Consumption per Coat	(depending on the absorbency of the substrate): 1.5kg = approx. 5m ² , 3kg = approx. 10m ² , 4.5kg = approx. 15m ²
Drying Time	Dust-dry in 1-2 hours , recoatable/walkable in 24 hours .
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.
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).
Shelf Life	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 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)

Component B (Hardener)

Hazard pictograms:

Hazard pictograms:



GHS05
Corrosion



GHS07
Exclamation mark



GHS09
Environment



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:

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

Supplemental hazard information: None

Precautionary statements - Prevention:

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

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 information:

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

Safety Instructions:

- **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 through an appropriate recycling or waste disposal facility.

Recommended Additional Products

Cleaning	CAIRCON - Etching Solution, CAIRCON - Special Pre-Cleaner
Substrate Preparation	CAIRCON - Levelling Compound, CAIRCON - Epoxy Resin Mortar
Tools	CAIRCON Spiked Shoes, CAIRCON Floor Roller, CAIRCON Epoxy Spiked Roller, CAIRCON Paint Brush Set
Similar Products	CAIRCON - Epoxy Resin Sealer CLEAR, CAIRCON - Epoxy Resin Floor Coating CLEAR