

Application Instructions / Technical Data Sheet

CAIRCON - 2K POOL PAINT MATT

CAIRCON 2K Pool Paint is an advanced 2-component epoxy resin swimming pool coating that is superior to conventional 1K swimming pool paints. It is not based on chlorinated rubber or PU, but on an epoxy resin system that provides exceptionally high mechanical strength and chemical resistance. This gives it significantly increased durability. In a perfectly matched system with **CAIRCON 2K Sealing Slurry**, our pool paint achieves optimum performance: 2K Sealing **Slurry not** only provides efficient waterproofing, but also serves as an adhesion primer for coating with our pool paint. The result is not only a visually attractive surface, but also a surface quality that is pleasing to the touch. For mineral substrates, such as tiles, concrete or cement, the combination of both products forms a system that ensures the pool's lasting watertightness and integrity.

Check colour accuracy with a test coat BEFORE application; no complaints or exchanges are possible after application. On continuous surfaces, use only colours from the same delivery or with an identical batch number. Repairs to a surface must also use material and tools with the same consistency and batch number.

Step 1. Substrate preparation

1. To ensure good adhesion of the 2K swimming pool coating and degreasing of the surface, it is essential to treat the substrate **thoroughly with CAIRCON Special Pre-Cleaner** first. Any existing old coatings must be checked for soundness by cross-cut before coating and, where sound, sanded with 60-80 grit.
2. Carefully remove cement slurry, sintered layers, formwork oil residue and lime deposits.
3. Fresh concrete should **be at least 6 weeks** old and must have no holes or voids. It must also be completely dry and free from dust before application begins.
4. To ensure optimum waterproofing, we recommend preparing the pool first with **CAIRCON Sealing Slurry**. 2K Sealing Slurry also serves as a primer for the pool paint.
5. Allow the sealing slurry **to dry for at least 24 hours** before continuing with the further coating process.

Notes:

Our 2K pool paint is ideal for swimming pools made **of concrete, cement and steel**. Test suitability for GRP and liner pools beforehand by preparing a test area, as these materials may vary significantly in composition.

If third-party products are used for substrate preparation, verify their compatibility and a satisfactory final result by preparing a test area BEFORE coating. No liability can be accepted for an improper application result when third-party products are used.

Step 2. Mixing the epoxy resin

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 coloured **epoxy**: 10:1 by weight with hardener.
- 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. Exposure of the coating film to water: Water may be filled in no **earlier than 14** days after application of the final coat. During this period, temperatures must not fall below 17°C. Rinse out the pool before filling with water.

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.
- CAIRCON 2K Pool Paint should be recoated after an **intermediate drying** time of at least 12 hours, which may extend up to 48 hours depending on drying conditions, layer thickness, surface condition, temperature **and humidity. Optimum:** after 24 hours. The second coat can 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.

Drying times

Dust dry	Walkable	Filling with water
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Approx. 1-2 hours	After 24 hours	After 14 days
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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

Application conditions	Do NOT 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.
Optimum application conditions	Air temperature: 20-25°C; surface temperature > 15°C; relative humidity: 40-60%. Air velocity: min. 0.4 m/s (ensure good ventilation).
Coverage	Approx. 250 g/m ² per coat. 2 coats are recommended .
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 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

Cleaning	CAIRCON Etching Solution, CAIRCON Special Pre-Cleaner
Substrate preparation	CAIRCON Epoxy Primer, CAIRCON 2K Sealing Slurry, 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 Floor Coating, CAIRCON Floor Coating, CAIRCON 2K Balcony Paint, CAIRCON 2K Tile Paint

Warnings and safety information

Component A (base)

Hazard pictograms: Not required

Signal word: None

Supplemental hazard statements: None

Precautionary statements:

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

Signal word: Danger

Hazard statements for health hazards

- **H318** Causes serious eye damage.

Supplemental hazard statements: 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.

Component B (hardener)

Hazard pictograms:



GHS05
Corrosion

