

Application Instructions / Technical Data Sheet

CAIRCON - Stone Carpet Set (25kg marble gravel plus 1.5kg binder)

Our stone carpet set is a versatile, seamless floor system consisting of colourless epoxy resin and bound stone granules. It is ideal for living rooms, showrooms and office spaces and is suitable for both indoor and outdoor areas. Its properties also make our product suitable for underfloor heating, particularly in bathrooms and wellness areas.

IMPORTANT: Outdoors, all epoxy-resin-based stone carpet sealers, including our product, may visibly yellow under prolonged UV exposure, particularly on light-coloured stone carpets. We therefore recommend use of the stone carpet set with UV protection outdoors. Thanks to the UV protection in the binder, the colour stability of the stones is retained and they are protected from fading due to sunlight.

Please note that this set is suitable exclusively for horizontal surfaces. For vertical surfaces, you require the CP740 stone carpet Vertical Set.

Step 1. Substrate Preparation

1. Cleaning the substrate: Before coating, all floors must be thoroughly cleaned, ideally with CAIRCON - **Special Cleaner**. Cement laitance, sinter layers, formwork oil residues and surfactant and limescale deposits in particular should be removed. For greasy or oily contamination, CAIRCON - **Special Degreaser may be used** instead. After cleaning, prepare the floor with CAIRCON - Etching Solution before applying **the stone carpet System**. This Etching Solution roughens the floor at a micro level and thereby significantly improves adhesion of the stone carpet System.

2. Priming: Once the floor has been cleaned and etched, it is important to **prepare it for coating with CAIRCON - Stone Carpet Primer**. The amount of CAIRCON - Stone Carpet Primer applied depends on the absorbency of the substrate. An excessively absorbent substrate may absorb the resin in the binder of the stone carpet set, preventing proper bonding of the new floor and allowing the stones to come loose **soon afterwards. Only the matching CAIRCON - Stone Carpet Primer must be used for the CAIRCON Stone Carpet System, as third-party products may prevent a permanent, secure bond.** If required, broadcast fine quartz sand into the still-wet primer to improve adhesion further and prevent the stone compound from spreading.

Step 2. Stone Carpet Set Preparation

1. Mixing: It is important to mix the two binder components together in exactly the correct quantity using a mixer (or drill with mixing paddle) at max. 450 rpm for approx. 2-3 min, and only **then add** exactly the correct quantity of stones. **THEREFORE MIX THE TWO RESIN COMPONENTS FIRST AND DO NOT MIX ALL 3 COMPONENTS TOGETHER** AT ONCE, otherwise uniform mixing of the binder will not be achieved. Thoroughly mix the stone carpet compound.

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.

2. Store the material dry at room temperature for approx. 24 hours before application. The storage temperature should be at least 15 degrees. Avoid direct sunlight and generally protect the material from frost. **Damp stones, e.g. from rain or condensation, must not be used.**

Mix the stone carpet material and apply it immediately. Ensure that only as much material is mixed as can be applied promptly. Note: As the ambient temperature increases, stone carpet curing accelerates.

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.

Step 3. Application

1. Optimum layer thickness: For the stone floor, we recommend an application thickness of approximately 6 mm. If a thicker layer is selected, note that this requires a considerably longer curing time. While applying the stone carpet, regularly check with a powerful fluorescent lamp that the surface is truly level. Move a spirit level over the floor to identify uneven areas. Correct these locations if necessary with an additional application of stone mixture.

2. Customisation with patterns: Compared with tiled floors, a stone carpet provides an easy way to integrate individual patterns and decorative accents. You can either create a design yourself using aluminium rails or use prefabricated pattern/profile rails. These rails are fitted with small fixing bases that can be nailed or bonded to the substrate. Once the floor has been spread, the rails are firmly anchored and no longer shift, so bonding is often sufficient. The rails are also flexible enough to form smaller curves, allowing complex designs or even ornate monograms to be integrated.

3. Important recommendations for installing stone carpets on stairs: For application of stone carpet on stairs, special aluminium edge and corner rails are essential to prevent the stone carpet from shifting. These rails integrate seamlessly into the overall appearance and provide optimum edge and corner protection. When renovating concrete stairs or already tiled stairs, stone carpet is an ideal choice. The minimal increase in height caused by the covering preserves the original dimensions and step heights, so the stairs remain safe and comfortable to use.

4. Smoothing and additional sealing: Once the substrate is fully dry, use of CAIRCON - **2K Stone Carpet Pore Filler** is recommended to perfect pore closure. This gives the floor a finer, more even finish. This measure is essential particularly in wet areas or walk-in showers to ensure watertightness and enable comfortable barefoot walking. For optimum surface smoothing and improved stone carpet resistance, we recommend final sealing with transparent CAIRCON - **2K Stone Carpet Sealer**.

Notes:

- **Please note: Natural** stones appear different in colour when dry and untreated. The stones develop their final colour intensity and surface only after application with epoxy resin. These differences are due to the material and do not constitute a **defect**. For checking purposes, a small quantity of stones can be moistened in advance. The resulting colour effect approximately corresponds to the later appearance after sealing with epoxy resin.
- If installing stone carpet for the first time, we recommend marking **your first square metre on the substrate with chalk** before applying the pebble/binder mixture.
- Use a gauge **rake to** distribute the stone carpet evenly. The adjustable pin height of the rake determines the layer thickness of the applied material still to be smoothed, thereby ensuring consistent distribution across the entire surface.

- For creating stone carpets on vertical surfaces (e.g. walls, plinths, stair treads), we recommend CAIRCON - **1K Stone Carpet Binder VERTICAL** and **CAIRCON - Stone Carpet Sealer VERTICAL**.

Step 4. Care and Cleaning

The cleaner should be free from solvents so that the binder between the pebbles is not loosened. It is essential to note that the floor must not be cleaned during the first 7 days after installation.

Drying Times

For a stone carpet floor covering, drying time is not the same as curing time. In most cases, the surface can be walked on again after approximately 24 hours, but a stone floor is not fully cured until after approx. 7 days. Wait until complete curing before the first cleaning.

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

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.

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.
Suitable for	Screed, concrete, tiles, mastic asphalt, etc.
Consumption	25kg marble gravel + 1.5kg binder (resin and hardener) for a floor coating of approx. 2m ²

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 Cleaner , CAIRCON - Etching Solution, CAIRCON - Special Degreaser
Substrate Preparation	CAIRCON - Stone Carpet Primer
Additional Sealing	CAIRCON - 2K Stone Carpet Pore Filler, CAIRCON - 2K Stone Carpet Sealer (also available with UV protection).
Similar Products	CAIRCON - Stone Carpet Vertical Set, CAIRCON - Stone Carpet Binder VERTICAL, CAIRCON - Stone Carpet Sealer VERTICAL



Warning and Safety Information

1.5kg binder

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:

- **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.