

## Application Instructions / Technical Data Sheet

### CAIRCON - Horizontal Barrier Injection Cream

CAIRCON Cream is a cream-like, VOC-free impregnating agent based on alkylalkoxysilanes. It provides comprehensive, durable protection for masonry and facades against water penetration.

CAIRCON Cream was specially developed for drying masonry by non-pressurised borehole injection and for use on mineral building-material surfaces. Due to its cream-like consistency and resulting excellent application properties, CAIRCON Cream is suitable for many applications requiring reliable protection of absorbent mineral building materials against moisture. In addition, the cream prevents efflorescence and frost damage, damage caused by water-soluble pollutants, and infestation by microorganisms.

CAIRCON Cream is suitable for all mineral and alkaline substrates and building materials that have a minimum level of absorbency, such as:

- Mortar
- Render
- Aerated concrete
- Concrete
- Sand-lime bricks
- Natural stone
- Industrially manufactured bricks and clinker

By contrast, CAIRCON Cream is not suitable for building materials with no or only very low absorbency, such as:

- Belgian bluestone (arduin)
- dense or polished marble
- Granite

### Application

CAIRCON Cream has a very high active-ingredient concentration and is applied directly without further dilution with water or solvents. The application method depends on the respective use:

#### **Masonry drying / borehole injection:**

The primary application of CAIRCON Cream is drying masonry by non-pressurised borehole injection. CAIRCON Cream is WTA-certified in accordance with WTA Guideline 4-4-04D and, according to this certificate, is suitable for use in masonry with a moisture penetration level of up to 95%. By forming a horizontal barrier in the masonry, rising moisture is prevented. The masonry above the injection level can dry out and the building is protected from renewed moisture penetration. In addition, we recommend supporting the masonry drying process through accompanying measures and addressing the cause of moisture penetration.

CAIRCON Cream is injected undiluted into holes previously drilled in the masonry. CAIRCON Cream is injected without pressure. Due to the cream's good spreading capability and fine-particle consistency, it spreads effectively through the masonry around the drill holes, forming a continuous barrier against rising water. The cream is generally injected into the masonry through horizontal holes drilled at ground level (outdoors) or floor level (indoors), spaced approx. 12.5 cm apart. Where possible, the holes, which must be drilled at a diameter of approx. 12 mm, should be arranged adjacent to one another in a row. The holes should be drilled horizontally into the mortar joint, and their depth should correspond to the wall thickness minus a safety clearance of approx. 3 cm. To achieve optimum performance of the cream, it is advisable to thoroughly clear masonry particles and drilling dust from the holes with compressed air before injection. The cream is injected using a suitable cartridge or foil-pack gun. During injection, ensure that the holes are filled completely with the cream and without air bubbles. This is best achieved using an injection cannula whose length is at least equal to the depth of the holes. Starting at the base of the hole, inject the cream while slowly and evenly withdrawing the injection cannula. Cream residue on the masonry surface due to possible over-application can be wiped off with an absorbent cloth.

To prevent the cream from running back out of the drill holes or becoming contaminated, it is recommended that the exterior of the holes be closed with rapid cement after injection.

### **Application information**

When the product is used for borehole injection, ensure that CAIRCON Cream never comes into contact with bitumen or bitumen-like insulation, or with coatings based on synthetic resin or acrylate, such as concrete paint. Contact with other coating and insulation materials must also be avoided, as CAIRCON Cream may otherwise cause irreversible adhesion or detachment of the coatings.

If, despite all precautions, CAIRCON Cream comes into contact with the coating, we recommend removing the product immediately and without residue using plenty of cold tap water.

### **Storage**

Protect the containers from direct sunlight. Maintain a storage temperature between +5 and +25°C.

When supplied in foil packs, the best-before date stated in the relevant accompanying documents applies.

The product may still be used after the stated storage period has expired. In this case, however, it is essential to check the product for possible bacterial and fungal infestation before use.

## Technical data

<b>Composition</b>	high-viscosity silane/siloxane cream
<b>Appearance</b>	white, creamy-paste consistency
<b>Concentration</b>	approx. 80%
<b>VOC content</b>	VOC-free
<b>Density (at 20°C)</b>	approx. 0.9 g/cm <sup>3</sup>
<b>Packaging</b>	Foil pack
<b>Storage</b>	+5 to +25°C; different best-before dates apply depending on the container type.

### Note

These data are only guide values and are not intended for the preparation of specifications.

Special storage and use instructions:

Store the product in as cool, frost-free and dark a place as possible.

Use up the product promptly after first opening the container.

The logo for CAIRCON features a stylized house icon in the background, composed of a large orange triangle for the roof and two smaller orange squares for windows. Below the house, the word "CAIRCON" is written in large, bold, orange capital letters. The 'A' and 'I' have small orange squares above them, and the 'O' has two small orange squares above it, mirroring the window icons in the house.

CAIRCON