

AQUAFIN®-F

Silicification solution for retroactive horizontal barriers



Material number	Contents	Unit of quantity	Packaging	Colour
204247001	12	KG	Canister	Colourless
204247002	30	KG	Canister	Colourless
204247007	250	KG	Drum	Colourless
204247008	1200	KG	Container (IBC)	Colourless

Product features

- Ready to use
- Tested and certified in accordance with WTA relevant guidelines up to 95% moisture penetration
- Hydrophobic and constricting
- Vapour permeable
- Solvent free

Advantages

- High penetration depth
- Prevents capillary water transport
- Easy and safe to use

Fields of application / waterproofing

- As horizontal barrier against rising damp in masonry work
- Can be used without pressure and with low pressure techniques

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Technical Data

Material properties

Product components	Ready to use
Base material	Silane
Consistency	Liquid
Density (spec. weight)	approx. 1.3 g/cm ³

Application

Substrate/application temperature	from 5 °C to 30 °C
Consumption per mm masonry cross section	approx. 15 kg/m ²

Application technology

Aids/tools

- Electro-pneumatic drill
- Cartridge gun
- Suitable injection equipment
- Injection packer

Substrate preparation

Measures for substrate preparation

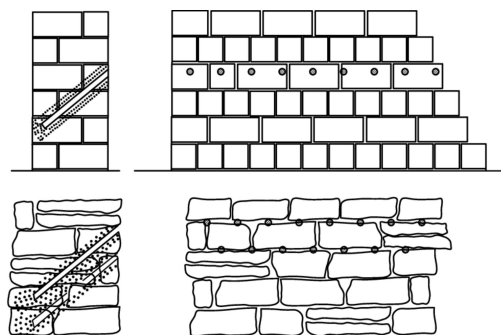
1. Masonry work with larger voids, chamber stones, cracks or open joints must be pressed out with ASOCRET-BM before drilling holes.
2. Insulating the masonry work in the area of the drill hole barrier with AQUAFIN®-1K prevents the material from escaping.

Usage

Creation of drill holes

1. The drill hole spacing and the arrangement of the drill holes (1-row or 2-row) depends on the absorbency of the masonry work. The closer the drill hole spacing, the greater the certainty for the success of the measure.
2. As a rule, drill holes with a diameter of 30 mm are drilled at a distance of approx. 10 - 12.5 cm and an angle of inclination between 30° and 45°. The drilled hole depth is approx. 5cm less than the masonry thickness. When specifying the drilling angle be aware of the requirement to cover at least one bed joint, and a minimum of 2 bed joints with thicker masonry work.
3. The drilled hole depth is approx. 2 cm (pressureless injection) or approx. 5 cm (low-pressure injection) less than the masonry work thickness.
4. For low or non-absorbent substrates, it is recommended to arrange the drill holes in two levels in the joint area. The height difference should be <8 cm.
5. With absorbent natural stone masonry, place the drill holes in the stone and with dense quarry stone masonry in the joints.
6. Prior to injection, dust from drilling must be removed thoroughly to ensure maximum possible absorption of the active substance in the masonry work.

Drill hole arrangement - Injection without any pressure

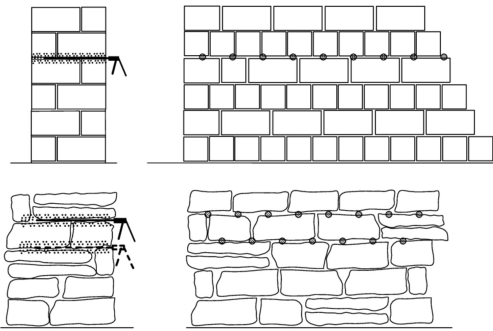


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Pressureless injection - implementation

1. Insulating the masonry work in the area of the drill hole barrier with AQUAFIN®-1K prevents the material from escaping.
2. Introduce AQUAFIN®-F into the drilled holes via supply vessels (funnel with pressure plug). The impregnation time should be until the substrate is completely saturated.
3. The drilled holes can be subsequently completely backfilled with ASOCRET-BM or sealed with suitable cement-based mortars.

Drill hole arrangement - Injection with pressure



Low pressure injection - implementation

1. Insert injection packer into the drilled holes.
2. Inject AQUAFIN®-F using the pressure method (<10 bar). Maintain the injection until the adjacent grout is filled to a matt shine.
3. After injection, the injection packers are to be removed and the drilled holes are to be completely filled with ASOCRET-BM depending on the project or sealed on the surface with suitable cement-based mortars.

Storage conditions

Storage

Frost-free, cool and dry, 24 months in the original container. Promptly use opened container.

Disposal

- Product leftovers can be disposed of in accordance with disposal code AVV 06 02 99.
- Must not be disposed of in household waste. Do not allow to enter the sewer system.

Notes

- Protect surfaces that are not to be treated from the effects of AQUAFIN®-F!
- The basis of the renovation procedure is the WTA technical data sheet 4-10 - Masonry work injection against capillary moisture. Preliminary investigations (e.g. moisture balance, salt analysis) are generally required.
- AQUAFIN®-F is not suitable for exposed surfaces such as concrete, masonry work, plaster, etc.
- For wall thicknesses over 60 cm, we recommend double-sided injection with AQUAFIN®-F or pressure injection.

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