

FOBISIL IC

Injection agent against rising moisture

1. Product characteristics

Single-component silicate based aqueous solution without organic solvents

- eco-friendly, water soluble
- supplied in optimum consistency fit for direct application
- does not affect vapor permeability of treated materials
- permanently eliminates absorbability of treated masonry
- applied by gravity injection or pressure injection

2. Use

FOBISIL IC is a single-component silicate based aqueous solution without organic solvents. **FOBISIL IC** injection barrier is used to create watertight layer in moist brick, stone or mixed masonry in exterior or interior. The agent has high penetration ability, the resulting hydrophobicity is permanent.

3. Physical and mechanical parameters

Color	clear/colorless
Density (kg/m ³)	1015 ± 15
Water tightness 120 min (l/m ²)	0.0

4. Test certificates

The product is certified according to § 12 of Act No. 22/1997 Coll. and according to § 6 of Government Regulation No. 163/2002 Coll. as amended. Continuous independent production quality control is provided by AZL 1687 LABBET®. Supervision of Quality Management Systems, Environmental Relations and OSH is carried out by Certification Body No. 3029

5. Instruction for preparation and application

Surface preparation. It is necessary to remove all degraded plaster from the injected masonry. Joints need to be cleaned at least 20 mm beyond the surface of bricks and at least 80 cm above the visually apparent moisture line. The next step in preparation consists of drilling injection holes. The placement of the holes should follow from design of the repair. In the interior it is in general desirable to place the injection holes at lowest possible level above the floor, if possible in first horizontal joint. In the exterior it is desirable to drill the injection holes about 15 cm above ground. In masonry that exhibits water seepage thru its whole surface it is recommended to place the injection holes in square grid as of design of the repair.

Holes of 15 to 42 mm diameter are drilled with 15° to 30° angle (in specific cases 45 °) distanced 100 to 125 mm horizontally, the depth should be 50 to 100 mm less than the whole depth of the structure.

In brick masonry the injection holes are drilled from only one side of the wall. In stone masonry the holes should be drilled, if possible, from both sides in such a way that the holes would cross.

Walls thicker than 60 cm should be drilled from both sides in all cases regardless the material it is built from.

Drilled holes need to be cleaned of dust, the best way is to use clean pressurized air, and alternatively an industrial vacuum cleaner can be used.

The actual injection can be done as gravity injection alternatively with some hydrostatic pressure or as regular pressure injection. The procedure is commonly adjusted to available equipment. In any case it is necessary to follow WTA 4-4-04/D directive.

Neither temperature of the wall nor temperature of ambient air shall be below + 5 °C and above + 30 °C. At temperatures above +25 °C water evaporates faster and therefore the penetration ability into deeper parts of the masonry decreases.

Tools and equipment can be cleaned by water

6. Specific consumption

Specific consumption of the **FOBISIL IC** agent amounts 0.80 ÷ 1.3 l/m of the drilled hole, in dependence on absorbability of the wall and its actual moisture content.

7. Packing and storage

FOBISIL IC is supplied on PE canisters of 10 kg weight. Shelf life in undamaged packing is 24 months.

8. Health protection at work

FOBISIL IC is a substance with high alkalinity at normal temperature. Therefore, it is necessary to wear suitable protective clothing, goggles, rubber gloves, etc. In case of contact with eyes or skin, it is necessary to immediately rinse the affected area with large amounts of water. If swallowed, immediately seek medical advice. Store separately from food.

Issued MSDS meets the requirements of EC-Regulation 1907/2006, Article 31.

Because the product meets the criteria for classification as hazardous, it is necessary to provide the recipient or carriers with MSDS.

In countries where regulation REACH (para. 33.1): EU regulation on chemicals and their safe use (REACH: EC 1907/2006) is valid, professional users and distributors must be provided with following information automatically and without request: *This product is subject to Regulation (EC) no. 1907/2006 (REACH). It does not contain any substances that could be released from product under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from candidate list published by the European Chemicals Agency in concentrations above 0.1% (w / w).*

9. Waste disposal

During disposal of contaminated packages or clearing debris from product, it is necessary to follow the Act No. 185/2001 Coll. on waste, as amended.

10. Important notice

All information mentioned above, especially advice for processing and application of our products, is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove, that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary rights of third parties, above all, must be taken into account. All received are orders subject to our current "General sales and delivery conditions ". Please always make sure that you follow the most recent issue of the Technical Data Sheet. It is available, along with other information, at our Technical Department or at www.betosan.cz

Technical Data Sheet No. 5-7

Issued 23. 2. 2024

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BETOSAN s.r.o., Na Dolinách 28, 147 00 Praha, Czech Republic
Business and technical office Nová Cesta 291/40, 140 00 Prague 4, Czech Republic
Tel./fax.:+420 241 431 212, tel.:+420 241 431 215
E-mail: paha@betosan.cz, www.betosan.cz