

# FOBISIL extra R



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## Hydrophobic agent

### 1. Product characteristics

Single-component solution of silicon resin in an organic diluent. Meets the requirements of EN 1504-2.

- supplied in optimum consistence, fit for direct application
- has no influence on vapor permeability of treated materials
- distinctively increases atmospheric and chemical resistance of treated surface
- distinctively increases frost resistance of treated surface

### 2. Use

**FOBISIL extra R** is a single-component hydrophobic solution on the basis of silicon resin in organic diluent, which is intended especially for treatment of concrete and reinforced concrete, also for treatment of natural or synthetic stone, sandstone, facings in exterior as well as in interior. Agent has significant penetration ability, hydrophobic effect is permanent.

### 3. Physical and mechanical parameters

Requirements / results according to EN 1504-2

	Testing method	Requirements	Results
Penetration depth		Cube with 100 mm sides C (0.7). After impregnation and curing for 28 days the cube is split and the depth of dry layer is a penetration depth	class I: < 10 mm
Water absorption and hydrophobic impregnations resistance to alkalis.	EN 13580	Absorption ratio < 7.5% compared to non-impregnated element Absorption ratio (after immersion in alkaline solution) < 10%	complies complies
Hydrophobic impregnation drying rate	EN 13579	class I. > 30% class II. > 10%	class I. > 30%

#### Physical and mechanical parameters

Color	clear
Density (kg/m <sup>3</sup> )	820 ± 30
Vapor permeability R <sub>D</sub> H <sub>2</sub> O (m)	< 0.005
Water impermeability 120 min (l/m <sup>2</sup> )	0.0

### 4. Test certificates

Meets the requirements of EN 1504-2, annex ZA and TP ŘSD Sec. 31. and TP SSBK III.

The product is certified according to Act No. 22/1997 Coll. and Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR). Continuous independent production quality control is provided by AZL 1687 LABBET®. Supervision of quality management, environmental and OSH systems is performed by Certification Body No. 3029.

### 5. Instruction for preparation and application

Base preparation. Surface must be clean, dry and dust free (dust must be removed by an industrial vacuum cleaner).

Application of solution. The solution is applied by spraying or by a roller or, possibly, a brush usually in two layers, in the amount which the treated surface is able to absorb. The goal is not to create a coat on top of the surface, rather penetration of the agent into the maximum depth.

Second layer can be applied after the complete penetration of the first layer. Next layer can be applied on previously dry layers, the amount of layers depends on the absorbance of the surface.

Treated surface must be protected from rain and direct sunlight for at least 6 hours.

Neither temperature of the base nor temperature of ambient air shall be above + 30 °C. At the temperatures higher than +25 °C the diluent evaporates quicker and therefore the ability of penetration to the deeper parts of the surface is lower.

### 6. Specific consumption

The spreading capacity (specific consumption) of the **FOBISIL extra R** amounts depending on the absorbability of the surface to 0.04 ÷ 0.25 l/m<sup>2</sup>.

CONCRETE REPAIR

### 7. Packing and storage

**FOBISIL extra R** is supplied in steel sheet containers of 8 kg or cans of 0.8 kg. The shelf life of undamaged original packing is 24 months.

### 8. Health protection at work

Follow the instructions on the container and at the safety list. When working with **FOBISIL extra R** the appropriate protective aids should be worn. It is not allowed to eat, drink or smoke. When working in the interior the proper ventilation must be ensured.

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 orders are 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](http://www.betosan.cz).

### 11. CE marking

 1301	
<b>BETOSAN s.r.o.</b> Na Dolinách 28, 147 00 Prague 4	
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2-19/072013	
EN 1504-2:2004	
<b>FOBISIL extra R</b> hydrophobic agent	
Penetration depth	class I: < 10 mm
Water absorption and hydrophobic impregnations resistance to alkalis	complies
Hydrophobic impregnation drying rate	class I. > 30%

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