

# PERFIX SF

## Two-component chemical anchoring system

### 1. Product characteristics

Two-component chemical anchoring system on vinylester resin basis, intended for proper anchoring of construction elements and loads into both classic and problematic substrates.

- easy application and universal usability
- thixotropic
- short hardening time even at subzero temperatures
- high chemical resistance
- anchoring without expansion pressure
- odorless
- tested according to ETAG 001-01 Option 7

### 2. Use

**PERFIX SF** is a universally usable chemical anchor, intended for fast and solid anchoring in all kinds of materials: concrete, hollow bricks, stone, mixed masonry. It is suitable for example for anchoring pillars bases, railings, anchoring of threaded rods, for mechanical bonding of sanitary fittings, shop windows or garage doors. **PERFIX SF** does not cause any expansion forces, anchoring points can be placed close to the edges.

### 3. Physical and mechanical parameters

|                             |                            |
|-----------------------------|----------------------------|
| Color                       | grey                       |
| Density (g/ml)              | 1.6                        |
| Compressive strength (MPa)  | >70                        |
| Temperature resistance (°C) | -40 ÷ +50<br>(permanently) |
| Elasticity modulus (GPa)    | 11                         |
| Tensile strength (MPa)      | >12                        |

### 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

Drilled holes of prescribed dimensions according to specific application, must be clean, free of grease, oil and dust. Prior to the application, it is necessary to press out about 5 – 10 cm of the anchoring resin, outside of the drilled holes, until an even color is achieved. Apply the chemical anchor through a mixing nozzle at the bottom of the drill hole, then fill the hole from 1/3 to 1/2 of its volume. Insert the anchored element with circular motion. Anchored element must be clean, free of grease. After a proper hardening the anchored element can be fixed. The hardening time depends on the temperature of the base and the ambient air, it can range from 30 minutes at 25 °C and 90 minutes at -5 °C.

For holes in prefabricated blocks, hollow bricks, a reinforcing plastic mesh shall be used prior to the application, which will be completely filled up with the chemical anchor. The cartouche is closed after the application and for further use a new mixing nozzle shall be used. Specification of diameters of the stud bolts, anchoring depth, conversion of axial distance is in detail described in a technological procedure No. 29/12 „Application of chemical anchors PERFIX“.

### 6. Specific consumption

One cartouche of 280 ml can fill up a space volume of about 260 – 270 ml, in dependence on the specific application.

### 7. Packing and storage

**PERFIX SF** is supplied in PE cartouches of 280 ml or 410 ml. Store at dry cool place at temperatures between +5 to +25 °C. Shelf life of the product in original undamaged packing is 12 months.

The expiration date is stamped on the package.

### 8. Health protection at work

Handling **PERFIX SF** requires using a protective equipment and following the relevant safe instructions and hygienic measures. Further details on the safety and hygiene are described in the Safety Data Sheet.

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 (par. 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).

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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](mailto:paha@betosan.cz), [www.betosan.cz](http://www.betosan.cz)

