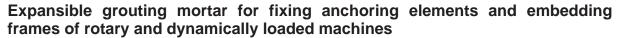
# **SUPERFIX**





#### 1. Product characteristics

Single-component dry mortar mix containing expansive admixture. Meets the requirements of EN 1504-6 for anchoring and reinforcing concrete by steel reinforcing bars.

- applied manually or mechanically
- liquefied for easy application
- permanently water resistant
- perfect mechanical properties
- perfectly fills-up anchoring and other holes due to controlled expansion

#### 2. Use

**SUPERFIX** is a single-component expansible dry mortar mix on the basis of Portland cement intended especially for sealing anchoring screws and embedding frames of rotary machines. **SUPERFIX** mortar ensures proper and permanent anchoring of anchoring elements in concrete constructions and elements. **SUPERFIX** mortar is well and long-time resistant against dynamic load. It provides alkaline protection to anchoring elements. It is also practical for monolithing of preformed joints or monolithic reinforced concrete structures. It can be also used for different grouting or additional concreting demanding moderate expansion of setting grouting, arches activation, underpinning of building structures a to prevent deformation during construction setting.

# 3. Physical and mechanical parameters

#### Requirements / results according to EN 1504-6

	Testing method	Requirement	Result
Pull out (mm)	EN 1881	< 0.6	< 0.3
Chloride ion content (%)	EN 1015-17	< 0.05	< 0.02

#### Physical and mechanical parameters

		1	
SUPERFIX	f	r	
Color		non-standard grey	
Tensile bending strength (MPa)	7 days 28 days	> 8.0 > 10.5	> 9.0 > 11.0
Compressive strength (MPa)	7 days 28 days	> 50 > 60	> 55 > 65
Expansion (volume change) vol. ‰ 1)		after 28 days + 0.6	

<sup>1)</sup> at 20±5 °C and relative humidity of ambient air 50 - 75 %.

#### 4. Test certificates

Meets the requirements of EN 1504-6.

The product is certified according to Act No. 22/1997 Coll. and Governmental Decree No. 163/2002 Coll. 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

<u>Base.</u> Any dust and incoherent particles shall be removed from the base before application. The concrete surface cannot be contaminated by substances, which can negatively affect adhesion of the mortar to the base (oil or other products). Before application of the prepared mortar, humidification of the concrete surface shall be properly and repeatedly performed for minimally 120 minutes.

<u>Preparation of the mortar.</u> **SUPERFIX** is prepared by mixing necessary quantity of dry mortar with measured quantity of water. The recommended mixing ratio is specified in the Table below. Optimum quantity of batching water can fluctuate in the given interval as usual for mortars containing a cementing binder.

	grain	recommended mixing ratio		grouting thickness (mm)	
mortar	size (mm)	dry component (kg)	water (liters)	min.	max.
SUPERFIX f SUPERFIX r	0 ÷1 0 ÷ 4	25 25	3.15 ÷ 3.65 3.10 ÷ 3.60	5 20	35 unlimited

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Workability of the product is 50 - 60 minutes at 20°C.

Neither temperature of base nor temperature of ambient air shall be below + 5°C and above + 30°C.

# 6. Application

<u>Application</u> should proceed according to the specific technological processes for applying nonshrinkable compositions of **SUPERFIX** series No. TP 3/06 of BETOSAN s.r.o. company.

## 7. Specific consumption

Specific consumption of dry mortar amounts to  $1.8 \div 1.9 \text{ kg/dm}^3$ .

## 8. Packing and storage

The product is supplied in 25 kg PE-lined paper bags or PE containers of 5 kg. **SUPERFIX** must be efficiently protected against moisture during transportation and storage. Shelf life in undamaged packing is 6 months After the expiration of min. shelf life, which is stated on the packaging, ingredients are not fully effective at reducing chromium VI below 2 ppm.

#### 9. Health protection at work

Handling **SUPERFIX XP** dry mortar does not require any extraordinary hygienic precautions. The product contains alkalis and therefore any contamination of mainly eyes or mucous membrane must be prevented. Health and labor safety rules applicable to work with cement or lime mortars are to be adhered to.

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).

## 10. 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.

#### 11. 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











<b>C€</b> 1301				
BETOSAN s.r.o.				
Na Dolinách 28, 147 00 Prague 4				
15				
8-2/072013				
EN 1504-6:2006				
SUPERFIX				
Expansible grouting mortar for fixing anchoring elements and embedding frames of rotary and dynamically loaded machines				
Pull out	< 0.3 mm at load of 75 kN			
Chloride Ion Content	< 0.02%			
Dangerous substances	meets 5.3			
Reaction to fire	Euroclass A1			

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