

## Expansible grouting mortar for fixing anchoring elements and embedding frames of rotary and dynamically loaded machines

### 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

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


**Base.** 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.

**Preparation of the mortar.** **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.

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

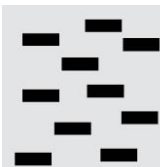


## 11. CE marking

 1301	
<b>BETOSAN s.r.o.</b> Na Dolinách 28, 147 00 Prague 4	
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8-2/072013	
EN 1504-6:2006	
<b>SUPERFIX</b> 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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SPECIAL MORTAR MATERIALS

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