

SUPERFIX rapid



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SPECIAL MORTAR MATERIALS

BETOSAN

Non-shrink fast setting mortar

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
- fast setting and hardening
- permanently water resistant
- perfect mechanical properties
- perfectly fills up holes and cavities due to controlled expansion

2. Use

SUPERFIX rapid is a single-component non-shrink dry mortar mix based on special fast-setting cement, suitable for various fast repairs, fixation of anchoring bolts and setting of prefabricated concrete pieces, cast-iron and steel frames, supporting elements, banisters, etc. **SUPERFIX rapid** mortar also provides strong a permanent anchoring of the anchoring elements in concrete structures and components. **SUPERFIX rapid** mortar resist well and permanently to dynamic stress as well. It provides alkaline protection to steel elements. It is also practical for monolithing of joints in prefabricated reinforced concrete structures. It can be used also for various grouting and additional casting where a slight expansion of the filling or arches activation are required or for concrete structures underpinning and prevention of deformation during the structures setting.

3. Physical and mechanical parameters

Requirements / results according to EN 1504-6

	Testing method	Requirements	Results
Pull out (mm)	EN 1881	< 0.6	< 0.3
Chloride Ion Content (%)	EN 1015-7	< 0.05	< 0.02

Additional physical and mechanical parameters

Color	Non-standard grey	
Tensile bending strength (MPa)	1,5 hour	> 5.5
	24 hours	> 7.5
	28 days	> 9.5
Compressive strength (MPa)	1,5 hour	> 12
	24 hours	> 35
	28 days	> 80

4. Test certificates

Meets the requirements of EN 1504-6.

The product is certified according to the Regulation (EU) no. 305/2011 (CPR). Continuous independent control of production quality ensures the AZL 1687 LABBET®. Supervision of quality management system, relation to the environment system and occupational health and safety system performs the certification body no. 3029.

5. Instruction for preparation and application

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 at least 120 minutes.

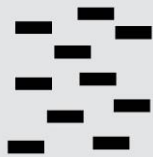
Preparation of mortar. **SUPERFIX rapid** is prepared by mixing necessary amount of dry mortar with measured amount of water. The recommended mixing ratio is 2,80 ÷ 3,20 l of water per 15 kg (1 bag) of mortar mix. Optimum quantity of batching water can fluctuate in the given interval as it is usual with mortars containing a cementing binder.

Workability of the product is 10 - 15 minutes under 20 °C.

Neither temperature of base nor temperature of ambient air shall be below + 5°C and above + 30°C. At reduced temperatures, it is necessary to condition the dry composition and the mixing water to at least + 10 ° C.

6. Application

The construction realization should generally comply with the principles contained in the relevant technological process No. TP 3/06 of the **BETOSAN** company for application of dry mortar mixes of **SUPERFIX** series.



7. Specific consumption

Specific consumption of dry mortar amounts to 1.9 kg/dm³.

8. Packing and storage

The product is supplied in PE containers of 15 kg. **SUPERFIX rapid** must be efficiently protected against moisture during transportation and storage. Shelf life in undamaged packing is 12 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 rapid** 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

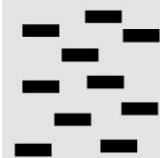
All information mentioned above, especially advice for processing and application of our products, is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions 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.

12. CE marking

CE 1301	
BETOSAN s.r.o. Na Dolinách 28, 147 00 Prague 4	
15	
8-21/072013	
EN 1504-6	
SUPERFIX rapid Fast setting mortar with cement binder for anchoring and bonding with expansive effect	
Pull out	< 0.3 mm at load of 75 kN
Chloride ion content	< 0.02%
Dangerous substances	meets 5.3
Reaction to fire	European class A1

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