

INJEKTOSTOP 2003 XPB

Cement-bentonite dry mix for injection with XYPEX admixture

1. Product characteristics

INJEKTOSTOP 2003 XPB is a dry single-component cement-bentonite mix intended for reinforcing watertight injections.

- mixed with water only
- contains agents compensating the volume changes
- optimum consistency for processing
- ensures perfect sealing of permeable layers against water penetration
- high penetration ability
- provides enhanced hardness to the injected layers
- enhanced resistance to ground sulfuric water

2. Use

INJEKTOSTOP 2003 XPB is used as a reinforcing and sealing injection of permeable and water-soaked gravel and rock layers situated behind the back of the sewerage pipe lining. It reinforces the surroundings of the sewerage pipeline, tunnels, main services ducts, arches, etc.

INJEKTOSTOP 2003 XPB easily penetrates even fine pores and hairline cracks. Its qualities include a long open time with fast subsequent setting. The expanding bentonite components and especially the XYPEX ADMIX C-1000 admixture provide for perfect sealing of the injected layers against water penetration. The rock surroundings is also reinforced.

3. Physical and mechanical parameters

Tensile bending strength (MPa)	7 days 28 days	> 2.5 > 4.0
Compressive strength (MPa)	7 days 28 days	> 10 > 15
Water-tightness		> V 12
Filtration coefficient K (ms ⁻¹)		< 5x10 ⁻¹¹
Sulfuric water resistance		permanently resistant to environment up to 2000 mg SO ₄ ²⁻ /l

4. Test certificates

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 and application

Preparation of the injection mix means only mixing the dry component with water in ratio specified in the following table:

INJEKTOSTOP 2003 XPB	dry component (kg)	water (liters)
	25	5.5 ÷ 6.5

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

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

Application of the mix. **INJEKTOSTOP 2003 XPB** was primarily developed to reinforce, seal and consolidate sewerage piping buried in permeable soil, permeable and water soaked gravel and rock layers and to seal and consolidate lining of tunnels, main services ducts, arches, viaducts, etc. Working requires adequate machine equipment, especially a pan concrete mixer, activation mixer and a sufficient pressure pump. The specific working depends on the machine equipment used. When working the mix for injection, be sure to observe the open time, upon its expiry the setting mix must not be diluted with water.

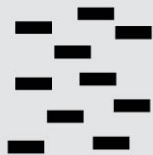
6. Specific consumption

Specific consumption of dry mortar amounts to 1.6 ÷ 1.7 kg/dm³ of the filled up volume.

7. Packing and storage

The product is supplied in PE lined paper bags of 25 kg. **INJEKTOSTOP 2003 XPB** must be efficiently protected against moisture during storing and transportation.

The shelf life of the product in original 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.

8. Health protection at work

Handling the **INJEKTOSTOP 2003 XPB** dry mortar mix 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 (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 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

Technical Data Sheet No. 8-5
Issued 1.1.2019



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