

Restoration mortar

1. Product characteristics

SANOFIX Trass Ex restoration mortar is extremely porous and absolutely hydrophobic. It is intended for moist masonry restoration in exterior. It provides natural diffusional dehumidification of the masonry, retention of salts inside its porous system and protection against external humidity. Due to that, plasters and coatings remain undamaged. Meets the requirements of EN 998-1.

- meets the requirements of WTA 2-9-20/D
- applied by manual rendering or mechanical plastering
- high permeability, high salts absorption
- contains dispersion polypropylene fiber reinforcement
- high ability to long-term suppress the effects of moist in load-bearing walls and masonry
- it is a stable substrate under water vapor permeable coating systems

2. Use

SANOFIX Trass Ex restoration mortar is a single-component dry mortar mixture with a high volume of porous system. It is suitable especially for exterior conditions. It is formulated on the basis of natural trass binder, classic Portland cement, lime, classic and lightened fillers and a large scale of special hydrophobizing admixtures significantly suppressing its moisture absorption. Added PP fibers provides better durability.

3. Physical and mechanical parameters

Requirements/results according to EN 998-1

Properties	Requirements	Declared value or class
Reaction to fire	-	A1
Compressive strength (MPa)	CS II	CS II
Water absorption after 24 hours (kg/m ²)	≥ 0,3	≥ 0.3
Water vapor permeability μ	≤ 15	≤ 10
Adhesion (N/mm ²)	-	≥ 0.6
Penetration after absorption test (mm)	≤ 5	< 5

Physical and mechanical parameters according to WTA 2-9-20/D

Color	Non-standard grey
Granularity	0 ÷ 4
Batch water consumption in liters per 1 bag (25 kg)	8÷9
Bulk density (kg/m ³) ¹⁾	< 1400
Porosity (%) ¹⁾	> 45
Compressive strength (MPa)	> 3
Compressive/tensile bending strength ratio	< 3
Capillary absorption (mm)	< 5
Diffusion resistance factor μ	≤ 10

¹⁾ hardened mortar

4. Test certificates

Meets the requirements of EN 998-1.

The product is certified according to Act No. 22/1997 Coll. and Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR).

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 and application

Base. The base for **SANOFIX Trass Ex** restoration mortar is a cohesive brick, stone or mixed masonry, free of dust and dirt. Old plaster must be removed about 100 cm above the line of the rising moisture. The vertical and

horizontal masonry joints must be scratched out to a depth of about 20 mm, and replace the damaged masonry elements or repair these areas by **WATERFIX XP TH** mortar. Masonry should be cleaned in advance by compressed air or steel brush.

Mortar preparation. **SANOFIX Trass Ex** restoration mortar is in small volume mixed by an electric drill driven propeller, larger volume is prepared in a plastering machine or a gravity mixer. Mixing time is about 10 minutes. In case of using a gravity mixer and mechanical applying the mixing time can be adequately shortened. Mortar is applied either manually or a plastering machine. The plaster mix should not be mixed for more than 30 minutes so it doesn't get so called overmixed! At lower temperatures the mixing time should be adequately extended with respect to the effectiveness of air-entraining admixtures.

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

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

Mortar application. **SANOFIX Trass Ex** is applied either manually or mechanically in layers of 15 to 20 mm thickness. In dependence on the conditions the mortar is applied in one or more layers. In case of applying more layers, the previous layer should be always roughened by a rough broom to ensure a good mechanical anchoring of the next layer. Before applying next layer, the previous one should be always let to mature well. The interval between layers should be 5 – 8 days at 15 mm layer thickness in dependence on relative humidity of ambient air and the intensity of its flow.

Surface finalization is done by **SANOFIX Trass F** stucco after maturing of the last layer.

Applied plaster layers should be protected from direct sun exposure and the effect of wind and other factors, accelerating undesirable evaporation of the batch water. Under extreme temperatures the plaster should be moistened first days.

6. Specific consumption

From one bag of **SANOFIX Trass Ex** restoration mortar (25 kg) 21 liters of mortar is prepared. At 15 mm layer thickness, 1 bag is enough to plaster ca 1.5 m² of masonry.

7. Packing and storage

The product is packed into 25 kg PE-lined paper bags.

SANOFIX Trass Ex 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.

8. Health protection at work

Handling **SANOFIX Trass Ex** restoration 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 (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



11. CE marking

CE	
BETOSAN s.r.o. Na Dolinách 28, 147 00 Prague 4	
03	
5-10/072013	
EN 998-1:2017	
SANOFIX Trass Ex Restoration mortar	
Reaction to fire	class A1
Water absorption (kg/m ²)	≥ 0.3
Water vapour permeability μ	≤ 10
Adhesive Bond (N/mm ²)	≥ 0.6
Thermal conductivity	NPD
Durability	NPD
Dangerous substances	meets 5.3.4

Technical Data Sheet No. 5-10
Issued 23. 2. 2023
7 863 510 270

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