

Dry mixture for terrazzo floors

1. Product characteristics

Dry mixture with hydraulic binder for making terrazzo floors. It is based on Portland cement, the appropriate types and sizes of aggregates, additives and admixtures. Meets the requirements of EN 13813.

- applied manually
- suitable for both interior and exterior
- perfect mechanical properties
- good workability
- non-flammable

2. Use

BETOSAN STS is intended especially for making terrazzo floors. It is applied on bearing substrate in a layer of at least 12 mm thickness. Terrazzo layer made out of **BETOSAN STS** dry mixture is highly abrasion resistant, shows perfect mechanical properties and is permanently water resistant. It is suitable especially for hallways, bathrooms, WC, terraces, around swimming pools etc. where its aesthetically desirable appearance is required. It can be also used for stair parts, retaining walls, etc.

3. Physical and mechanical parameters

Requirements / results according to EN 13813

Properties	Declared value or class
Reaction to fire (NO)	class A1
Abrasion resistance	class A22
Compressive strength	class C60
Tensile bending strength	class F10

Physical and mechanical parameters

Color	see table below
Maximum aggregate grading (mm)	8.0
Tensile bending strength (MPa)	> 11.0
Compressive strength (MPa)	> 60.0
Abrasion according to Böhme (cm ³ /50 cm ²)	< 20

The mixture is supplied in six color combinations

Color option designation	Cement color	Aggregate color
B01GC	grey	black
B01WC	white	black
W01GC	grey	white
W01WC	white	white
BW01GC	grey	black + white
BW01WC	white	black + white

4. Test certificates

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, environmental and OSH systems is performed by Certification Body No. 3029.

5. Instruction for preparation and application

Base. Terrazzo surfaces must be always applied on concrete layer base of C 25/30 (B 30) class concrete.

Mix preparation. The mixture is single-component mixed with water only. 25 kg of the mixture (1 bag) is mixed with 3.0 to 3.5 l of water.

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

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

Application: The terrazzo layer is applied in a thickness of 12-15 mm on concrete surface. Most suitable is to apply the terrazzo layer on the concrete layer by „fresh on fresh“ system, i.e. within 2 hours after the concrete application. In case that concrete base for terrazzo is older, but not more than 24 hours, it is recommended to use **DENSOCRETE 111** adhesive bridge on roughly prepared concrete base before applying the terrazzo. If the base is older than 24 hours, it is recommended to anchor the layer of terrazzo using epoxy adhesive bridge (see specific **BETOSAN** technological procedure). All the joints made in the base must be shown in the layer of terrazzo plaster as well. The joints must be cut within 12 hours after terrazzo plaster application.

Surface treatment. Applied layer of **BETOSAN STS** terrazzo mixture must be right after hardening protected against extremely fast desiccation, especially direct sunlight, wind and draft. Intensive treatment shall be carried for at least 3 days after the application. Optimal treatment means to cover the surface with permanently moistened geotextiles. Especially uneven desiccation should be prevented, e.g. due to underfloor heating.

Sanding: To avoid breaking out of the grain, especially small size aggregates, the sanding should start at least 5 days after the application.

The sanding is most preferably done with diamond surface grinder with continuous water rinsing. If necessary, all the possible cavities and decay can be filled with a fine cement mortar. The entire process can be significantly expedited by using **DENSOCURE H** treatment agent (for further information contact us for a specific technological procedure)

6. Specific consumption

Specific consumption of the dry mixture amounts to 1.9 kg/m² at 1 mm of applied layer thickness.

7. Packing and storage

The product is supplied in 25 kg PE-lined paper bags. The product 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 **BETOSAN STS** dry mixture 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).

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 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

 1301	
BETOSAN s.r.o. Na Dolinách 28, 147 00 Prague 4	
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EN 13813:2002 CT-C60-F10-A22	
BETOSAN STS Dry mixture for terrazzo floors	
Reaction to fire	class A1 _{fl}
Compressive strength	class C60
Tensile bending strength	class F10
Abrasion resistance	class A22
Adhesion	NPD

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BETOSAN s.r.o., Na Dolinách 28, 147 00 Praha, Czech Republic
Business and technical office Nová cesta 291/40, 140 00 Prague 4, Czech Republic
Tel./fax.:+420 241 431 212, tel.:+420 241 431 215
E-mail: praha@betosan.cz, www.betosan.cz

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MINERAL FLOOR SYSTEMS

BETOSAN