

TCE

Trass compound for single grain mortar



Basic mix with cement, trass and special additives

- recipe with original tubag trass
- mineral



APPLICATIONS

- for producing bonded water-permeable base layers
- for moderate loading; limited load-bearing capacity under heavy traffic loading

COMPOSITION

- cement in accordance with DIN EN 197-1
- trass in accordance with DIN 51043
- additives for regulating and improving workability and product properties

SUBSTRATE

Suitable substrates

- load-bearing concrete ceiling slabs
- cement-bound load-distribution layers (screeds), e.g. on outdoor patios or balconies
- compacted, anti-capillary base courses made of crushed rock or chippings

Properties/tests

- In outdoor areas, the subsurface must have a gradient of at least 1.5% and adequate drainage.
- For construction methods on sealed subsurfaces, the water that percolates into the material must be drained away via a drainage mat, drip rail or gutter, for example. Standing water on the impermeable subsurface is to be avoided and must be prevented by means of a suitable cross fall.

PROCESSING

Temperature	<ul style="list-style-type: none"> Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.
Mixing / Preparation / Processing	<ul style="list-style-type: none"> The mixing ratios shown in the mixing table must be used when preparing the mortar. The amount of water required depends on the moisture content of the aggregate. Using a gravity mixer or compulsory mixer, mix with clean water to achieve the correct consistency.
Processing	<ul style="list-style-type: none"> Spread the freshly mixed mortar evenly across the prepared subsurface and compact the mortar. For dimensionally accurate natural stone or paving blocks, a screed gauge can be used in order to achieve the desired layer thickness. To improve bonding for natural stone, the underside of the blocks must be pre-coated with tubag bonding slurry.
Processing / Working time	<ul style="list-style-type: none"> Process mixed mortar within 2 hours. Mortar that has already started to harden must never be thinned down with additional water, remixed or applied. The stated times apply for a temperature of +20°C and relative humidity of 65%.
Drying / Hardening	<ul style="list-style-type: none"> The fresh mortar is to be protected from rapidly drying out and unfavourable weather conditions such as frost, draughts, direct sunlight and direct driving rain.
Cleaning the tools	<ul style="list-style-type: none"> Clean all tools and equipment with water immediately after use.
Notes	<ul style="list-style-type: none"> All the relevant construction standards, codes and regulations must be observed. Use only aggregates in accordance with DIN EN 13139, DIN EN 13055 or DIN EN 12620. The aggregates must not contain any colourants or harmful constituents.

MIXING RATIOS

Mixing ratios, volumetric ratio:

Strength ²⁾ 28 days	tubag TCE Trass compound for single grain mortar	Basalt chips			Water for mixing
		2-5 mm ¹⁾	5-8 mm ¹⁾	2-8 mm ¹⁾	
Approx. 10 N/mm ²	1	6	-	-	dependent on the desired consistency
Approx. 15 N/mm ²	1	5	-	-	
Approx. 20 N/mm ²	1	4	-	-	
Approx. 10 N/mm ²	1	-	5	-	
Approx. 15 N/mm ²	1	-	4	-	
Approx. 20 N/mm ²	1	-	-	4	

¹⁾ Sand with no fines als fine flint or round-grain ²⁾ Laboratory values

Strength ²⁾ 28 days	tubag TCE Trass compound for single grain mortar	Quartz grain			Water for mixing
		2-5 mm ¹⁾	5-8 mm ¹⁾	2-8 mm ¹⁾	
Approx. 10 N/mm ²	1	5	-	-	dependent on the desired consistency
Approx. 15 N/mm ²	1	3,5	-	-	
Approx. 10 N/mm ²	1	-	4,5	-	
Approx. 15 N/mm ²	1	-	4	-	
Approx. 20 N/mm ²	1	-	-	4	

¹⁾ Sand with no fines, as fine flint or round-grain aggregates ²⁾ Laboratory values

Strength ²⁾ 28 days	tubag TCE Trass compound for single grain mortar	tubag TBS Dry fill material			Water for mixing
		2-4 mm	4-8 mm		
Approx. 2 N/mm ²	1	-	4		dependent on the desired consistency
Approx. 5 N/mm ²	1	5	-		
Approx. 10 N/mm ²	1	4	-		

PACKAGING

- 25 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

TECHNICAL DATA

Processing time approx. 2 hours

Colour grey

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety

- This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.
- Further information can be found in the safety data sheet at www.tubag.de.

GISCODE

- ZP1 (products containing cement, low-chromate)

Disposal

- Completely empty and recycle the packaging.
- Dispose of the material in accordance with the official regulations.
- Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concretewaste and concrete slurries).

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GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.