TNH-flex

Trass bonding slurry for natural stone

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Flexible, natural white bonding slurry

APPLICATIONS

- for improving the adhesion between paving stone and/or slab and bedding mortar
- for positive locking connections between hydraulically hardened substrates and bedding mortars as well as between bedding mortars and covering materials
- for improving the adhesive bond when laying natural stone slabs highly susceptible to discolouration according to DIN 18332 and DIN 18352 using the thick-bed method
- as additional security against migration of active discolouring substances from the substrate or thick-bed mortar
- for crystalline marble (Carrara, Sabiato, Thassos), Limestone slabs (Solnhofen, Jura marble, travertine), Basalt, Granite, polygonal tiles (porphyry, quartzite), ceramic coverings, Fine stoneware, Stoneware, Mosaics, Split tiles, Artificial stone
- suitable for wall, floor and electrical surface heating
- for interior and external use

PROPERTIES

- mineral
- colour: natural white
- flexible
- hydraulically curing and hardening
- smooth and easy to process
- frost-resistant and water-resistant after hardening

COMPOSITION

- white cement in accordance with DIN EN 197-1
- trass in accordance with DIN 51043
- graded stone aggregates in accordance with DIN 13139
- additives for improving bonding to the subsurface
- additives for regulating and improving workability and product properties

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SUBSTRATE

Suitable substrates	■ Concrete ■ Cement and calcium sulphate screeds, heated and unheated
Properties/tests	■ Contact areas must be frost-free, clean, firm, dimensionally stable and free of adhesion-reducing substances. ■ At the time of laying, cement screeds must have a residual moisture ≤ 2.0 CM % (unheated) or ≤ 1.8 CM % (heated). ■ Calcium sulphate screeds must have a residual moisture of ≤ 0.5 CM % (heated and unheated).
Pretreatment	■ Calcium sulphate-bonded substrates are to be primed with AKURIT GTA acrylate deep primer. ■ Pre-wet cement-based, absorbent substrates matt damp, but prevent puddles from forming. ■ No film of water may be present on the contact areas.

PROCESSING

Temperature	■ 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	■ When mixing manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water. ■ Use a suitable agitator to mix the material until smooth and free of lumps. Leave to develop for a moment and then mix again. ■ consistency: free-flowing ■ Maturing time: Approximately 5 minutes ■ Do not mix with other products and/or other substances.
Processing	■ Distribute bonding slurry over the whole area with a slurry brush, wall brush or trowel on the still matt-damp substrate and work in the thick-bed mortar straight afterwards. ■ Apply the following coating directly afterwards into the bonding bridge “wet-in-wet” in the required layer thickness. ■ Depending on the type of natural stone or covering used, the bonding slurry is applied on the fresh mortar bed over the whole area with a spatula and pasted onto the cleaned, dust-free bottom of the covering. The covering is then knocked into the prepared bedding layer wet-in-wet.
Processing / Working time	■ Approximately 1 hour ■ 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	■ Protect the fresh mortar from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct exposure to driving rain if necessary by hanging with foil.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ Cover adjoining areas and elements carefully. Wash off contamination immediately with water.

PACKAGING

■ 25 kg/sack

STORAGE

■ Store sacks appropriately and in dry conditions on pallets.

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QUANTITY REQUIRED / YIELD

- consumption: approx. 1.0 - 2.0 kg/m² per layer depending on subsurface quality and layer material
- yield: app. 19 l fresh mortar per 25 kg/sack

TECHNICAL DATA

Colour	natural white
Grain	0 – 0,5 mm
Water requirement	approx. 6.0 l per 25 kg/sack
Mixing time	approx. 3 minutes
Maturation time	approx. 5 minutes
Processing time	approx. 1 hour

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	■ Dispose of the material in accordance with the official regulations. ■ Completely empty and recycle the packaging. ■ 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).

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.