

TNM-rapid FX

Medium-bed trass mortar for natural stone



Rapid-hardening, flexible, medium-bed, trass mortar with effective crystalline water binder

- very high bonding strength
- mortar bed thickness 5 to 25 mm
- preparation time: approx. 40 minutes
- can be walked on and grouted after approx. 5 hours



APPLICATIONS

- for laying slightly discoloration-sensitive and deformation-sensitive natural stone pavements
- particularly suitable for laying large format coverings
- for construction sites with tight deadlines, rehabilitation and renovation
- for floor coverings on terraces, balconies, staircases, stair landings, window sills, underfloor heating systems (heated screeds)
- for smoothing out minor unevenness of up to 25 mm
- suitable for wall, floor and electrical surface heating
- can be used on composite sealants
- for use in permanently wet areas, please consult our technical advice team
- for interior and external use

PROPERTIES

- rapid hardening
- especially for the floor area
- with original tubag trass, particularly safe from efflorescence and staining on natural stone pavements and ceramic tiles as well as for an optimised hardening process
- relieves tension
- mineral
- frost-resistant and water-resistant after hardening
- flexible

COMPOSITION

- cement in accordance with DIN EN 197-1
- trass in accordance with DIN 51043
- graded stone aggregates in accordance with DIN 13139
- 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
- Asphalt screeds
- old, tightly adhering tile coverings

Properties/tests

- The substrate must be dry, firm, load-bearing, dimensionally stable, clean and free of adhesion-reducing contamination.
- The requirements of DIN 18560 and DIN EN 13813 are to be observed.
- At the time of laying, cement screeds must have a residual moisture ≤ 2.0 CM % (unheated) or ≤ 1.8 CM % (heated).
- At the time of laying, calcium sulphate screeds must have a residual moisture ≤ 0.5 CM % (unheated) or ≤ 0.3 CM % (heated).

Pretreatment

- Carefully remove adhesion-reducing layers and contamination, e.g. sinter layers, binding agent accumulations, loose paint coatings, adhesive residue or dust.
- The substrate is to be cleaned beforehand. No residue from cleaning agents must stick on the substrate.
- Bumps in the substrate are to be levelled with suitable plasters, e.g. strasser PLAN AS-S, or filling compounds, e.g. strasser PLAN BS 25 or BS 35-S.
- The substrate must be primed to seal the pores in order to regulate the absorbency.
- Primers must be allowed to dry completely.
- Prime smooth, non-absorbent substrates, e.g. concrete or old tile coverings, with strasser PRIM QG-T Quartz Primer Turbo or strasser PRIM UG-P Universal Primer Premium.
- Prime mineral substrates with strasser PRIM DTG-P Dispersion Depth Primer Premium or strasser PRIM UG-P Universal Primer Premium.
- Prime highly absorbent, mineral substrates with strasser PRIM DTG-P Dispersionstiefengrund premium.
- For time-critical work, prime mineral substrates with strasser PRIM DTG-T Dispersionstiefengrund Turbo (can be covered or recoated after approx. 15 minutes).
- Calcium sulphate screeds are to be sanded and vacuumed if necessary. Poured asphalt and calcium sulphate screeds of one layer to be pre-treated with strasser PRIM EG epoxy primer in one layer or with strasser PRIM ESA epoxy-resin protection coat in two layers and sanded off with strasser PLUS GQS coarse silica sand. Once hardened, remove excess, loose sand thoroughly.

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PROCESSING

Temperature	<ul style="list-style-type: none">■ Can be processed in case of air, material and substrate temperatures between +5°C and +30°C. Do not apply in case of direct sunshine or strong winds.
Mixing / Preparation / Processing	<ul style="list-style-type: none">■ Observe specified amount of water. Use a clean stirring container and clean tap water for stirring.■ Mix material homogeneously and without lumps with a suitable agitator, allow to cure for approx. 3 minutes and stir again.■ Do not mix with other products and/or other substances.
Processing	<ul style="list-style-type: none">■ Apply the scratch coat to the substrate with the smooth side of the notched trowel. Then comb on the mortar and push the tiles/coverings into the applied mortar bed under pressure and position them.■ Once the skin starts to form on the surface of the combed on adhesive bed, no more coverings can be laid.
Processing / Working time	<ul style="list-style-type: none">■ Approximately 40 minutes■ The processing time will be extended at low temperatures and/or high air humidity and shortened at high temperatures and/or low air humidity.■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.■ Timings relate to +23°C and 65% relative humidity.
Drying / Hardening	<ul style="list-style-type: none">■ 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.■ The laid area can be grouted approx. 4 to 5 hours.
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">■ When laying coverings outdoors or on floor surfaces with high traffic loads as well as for large formats (≥ 60 cm edge length, ≥ 0.25 m² base area), the buttering-floating method should be used. By applying the adhesive to the substrate and additionally to the back of the covering, an almost void-free installation is ensured.■ With natural stones susceptible to discolouration, the backs of the coverings must be pre-treated with a contact/barrier layer, e.g. strasser PRIM EG epoxy primer.

PACKAGING

- 25 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.
- We recommend using up the product within 6 months of the date of manufacture.

QUANTITY REQUIRED / YIELD

- Consumption: approx. 1.25 kg/m² per mm layer thickness

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TECHNICAL DATA

Water requirement	approx. 5.0 l per 25 kg/sack
Grain	0 – 1,2 mm
Compressive strength	≥ 10 N/mm ²
Adhesive bed thickness	5 - 25 mm
Maturation time	approx. 3 minutes
Adhesive open time	approx. 30 minutes
Walkability	after approx. 4 - 5 hours
Grouting	after approx. 4 - 5 hours
Resilience	after approx. 24 hours
Colour	light grey

All data are average values which have been obtained under laboratory conditions in accordance with relevant test standards and application trials at +23°C and 65% relative humidity. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ ZP1 (products containing cement, low-chromate)
Disposal	<ul style="list-style-type: none">■ 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.