

TPM-D 4 mm

Trass paving drainage mortar



Free-draining bedding mortar

- specially developed for road construction
- with anti-capillary effect to stop rising moisture
- compressive strength: $\geq 35 \text{ N/mm}^2$



APPLICATIONS

- for laying paving slab surfaces
- for surfaces with heavy traffic loads
- for producing drainage gutters

PROPERTIES

- meets the requirements of the FGSV working paper 618/2
- with trass to reduce the risk of lime efflorescence and discolouration on natural stones as well as for an optimised hardening process
- good workability
- single-component
- high compressive strength
- high adhesive tensile strength
- high frost resistance

COMPOSITION

- cement in accordance with DIN EN 197-1
- trass in accordance with DIN 51043
- graded stone aggregates in accordance with DIN 13139
- Admixture with general building authority approval for improving the processing properties

SUBSTRATE

- Suitable substrates**
 - water-permeable base courses

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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">■ Mix mortar homogeneously and without lumps using suitable machine technology, e.g. compulsory or continuous mixer.■ The right consistency is reached when a ball formed from the bedding mortar does not crumble and a slight sheen appears on the surface.
Processing	<ul style="list-style-type: none">■ The bedding mortar must be compacted by approx. 25 % by knocking in the stones or tiles.■ With large formats, it may be necessary to pre-compact the mortar, e.g. by pressing on it.
Processing / Working time	<ul style="list-style-type: none">■ approx. 2 hours■ The stated times apply for a temperature of +20°C and relative humidity of 65%.■ Dried out mortar is identified from the fact that the surface turns whitish. In this state the mortar must no longer be processed.
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 paving area can be walked on by pedestrians after approx. 24 hours in dry weather and can withstand vehicle loads (cars) to a limited extent at the earliest after 7 days.■ A complete approval for traffic with high traffic loads can be given after 28 days.■ The time from which a paving stone or tile covering can be approved for the usage is essentially based on the installation and hydration temperature of the paving stone grout and bedding mortar. The specified periods and times only apply as long as the traffic area has been grouted with tubag PFH paving stone grout mortar.■ Timings relate to +20°C and 65% relative humidity.
Cleaning the tools	<ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use.

PACKAGING

- 40 kg/bag
- loose in silo

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- yield: app. 20 l fresh mortar per 40 kg/bag
- yield: app. 550 l fresh mortar per t

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TECHNICAL DATA

Grain	0 – 4 mm
Water requirement	approx. 3.5 l per 40 kg/bag
Processing consistency	earth-moist
Processing temperature	+5°C to +30°C
Processing time	approx. 2 hours
Intake strength	3 - 6 cm
Compressive strength	≥ 35 N/mm ²
water permeability coefficient	> 4,0 × 10 ⁻⁴ m/s
Drainable rainfall	> 4000 l/(s*ha)

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	<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.■ Follow further instructions in the safety data sheet.
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.