

PFF

Paving grout

Ready-to-use, water-permeable grout mortar for paving stones, natural stone and ceramic slabs and clinker layers

- for conventional slurry grouting
- easy and efficient to use thanks to Easy Clean Technology (ECT)
- vacuum-packed
- suitable for road sweeping machines
- compressive strength: approx. 8 N/mm² (can be spread as slurry grout)



APPLICATIONS

- suitable for use-category N1 according to ZTV Wegebau (extra technical requirements for road building)
- for surfaces for mainly pedestrian use
- for grouting existing and new paving
- depending on compaction and substructure, also suitable for surfaces subject to occasional light traffic loads

PROPERTIES

- ready for use
- hardens under the influence of atmospheric oxygen
- permeable to water
- applied using the conventional slurry grouting method
- effective in preventing weed growth in the joints
- frost-resistant and water-resistant after hardening

COLOURS

- sand, stone grey, basalt

COMPOSITION

- reactive binder
- mineral aggregates
- quality-monitored

SUBSTRATE

Suitable substrates	<ul style="list-style-type: none">■ The water-permeable bedding mortars, tubag TDM, TDM plus or TGM, are ideally suitable as a bonded bedding layer.
Properties/tests	<ul style="list-style-type: none">■ The paving and its subbase must be constructed in such a way as to prevent any loosening of the joints under subsequent loading.■ The relevant regulations and instruction sheets for the construction of paving must be observed.■ The entire construction must be water permeable, so that penetrating water can drain away.■ The minimum joint width required to introduce the product for grouting using the slurry method is 3 mm.■ For large format tiles we recommend at least 5 mm or 1 % of the longest tile side as the joint width.■ Required minimum joint depth: 30 mm.■ For terrace surfaces made of ceramic and fine stoneware, which are laid using the bonded construction method, the minimum joint depth is approx. 20 mm.■ The sides of the paving units must be free of any impurities.
Pretreatment	<ul style="list-style-type: none">■ Before starting the grouting process, carefully wet the paving with a fine water mist. This prevents the binder from penetrating into the pores of the paving units.■ There must be no water standing in the joints.

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. ■ At air temperatures greater than 30°C and in windy conditions, special measures (such as shading) must be taken.
Mixing / Preparation / Processing	<ul style="list-style-type: none"> ■ The product is ready for use.
Processing	<ul style="list-style-type: none"> ■ Cut open the plastic vacuum bag and pour the contents over the surface of the pre-wetted paving. ■ To minimise the risk of discolouration, apply plenty of water when spreading the slurry grout. ■ In the case of narrow joints, care must be taken to ensure that the joints are filled to their full depth. For this purpose, it is recommended to support the grouting with a punctual water jet or, if necessary, to re-compact mechanically. Any grout that has sagged can be filled fresh in fresh with grout in the joint. ■ Any grout remaining on the surface of the paving blocks must be removed by brushing in a direction diagonal to the direction of the joints. ■ If the paving units have bevelled edges, the level of the grout after cleaning must be no higher than the bottom edge of the bevel. ■ The paving must be completely cleaned before the grout has completely dried.
Processing / Working time	<ul style="list-style-type: none"> ■ Approx. 30 minutes at +20 °C and 65 % relative humidity. ■ The processing time will be extended at low temperatures and/or high air humidity and shortened at high temperatures and/or low air humidity.
Drying / Hardening	<ul style="list-style-type: none"> ■ The freshly grouted paving must be protected from frost for a period of 24 hours. When the grout is still fresh, heavy rainfall could wash it out of the joints. The paved area should therefore be covered with plastic film if necessary. When using a protective film, ensure sufficient ventilation between the film and the paving (do not lay the film directly on top of the paving). ■ The paving can be walked on after approximately 24 to 48 hours and can be fully loaded after approximately 7 days. The stated times apply for a temperature of +20°C and relative humidity of 65%.
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"> ■ Do not use in permanently wet areas such as swimming pools, fountains, ponds, drainage channels, etc. ■ Do not use in the immediate vicinity of chlorinated pools (recommendation: tubag FineLine). ■ Optically related areas must be prepared with material from the same production batch to prevent colour differences. ■ Opened packages must be completely used. Mortar remaining in the package reacts immediately with oxygen and hardens. Later use is no longer possible. ■ Any glossiness remaining on the surface of the paving after cleaning will weather away over time. ■ In the case of particularly light-coloured and porous types of paving block, the binder can cause certain effects such as a darkening of the colour. ■ In order to achieve an optimum appearance, we recommend that you first grout a sample area paved with the type of paving units in question. ■ Over time, some discolouration could take place due to the effects of dirt and weathering. ■ Paving stone and tile coverings made of concrete, natural stone and ceramic/fine stoneware are coverings requiring maintenance. Depending on the intensity of the outdoor weathering, surfaces can get covered in moss and/or algae, which can lead to the functionality of the grout mortar being impaired. (Loss of strength and reduced water permeability). We recommend regular cleaning with an algae remover containing surfactant, e.g. Lithofin ALLEX.

PACKAGING

- 12,5 kg/bucket
- 25 kg/bucket

STORAGE

- Store in the original, unopened packaging in dry, frost-free conditions.
- Do not subject to excessive temperature changes.
- We recommend that the product be used within 12 months of the date of manufacture.
- For date of manufacture, see separate sticker.

QUANTITIES REQUIRED / YIELD

Format / top surface	Quantity required, approximate
Large paving units* 160 x 190 mm	5.0 kg/m ²
Large paving units* 140 x 170 mm	5.5 kg/m ²
Small paving units* 100 x 100 mm	9.0 kg/m ²
Small paving units* 90 x 90 mm	9.5 kg/m ²
Mosaic paving* 60 x 60 mm	13 kg/m ²
Mosaic paving* 50 x 50 mm	15 kg/m ²

*Calculation example - joint width: 8 mm / joint depth: 30 mm

TECHNICAL DATA

Grain	0,2 – 1,2 mm
Fresh raw density	approx. 1.8 kg/dm ³
Compressive strength	(7 days) approx. 8.0 N/mm ²
Joint width	3 – 30 mm
Joint depth	≥ 30 mm, with bonded bedding layer ≥ 20 mm
Processing temperature	+5°C to +30°C
Processing time	approx. 30 minutes
Walkability	approx. 24 to 48 hours
Resilience	after approx. 7 days

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"> ■ Follow further instructions in the safety data sheet.
Disposal	<ul style="list-style-type: none"> ■ Completely empty and recycle the packaging. ■ Leftover, hardened material can be disposed of in accordance with waste code number 08 04 09 (adhesive waste and sealing compound waste containing organic solvents or other dangerous substances).

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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.