PFM2

Paving grout

tubag
A trademark of sievert

2-component, synthetic resin-bonded, water-permeable paving stone grout mortar

- can even be used in light rain, no covering required
- suitable for road sweeping machines
- compressive strength: ≥ 25 N/mm²

APPLICATIONS

- for grouting existing and new paving
- suitable for use-category N3 according to ZTV Wegebau (extra technical requirements for road building)
- for traffic surfaces with vehicles up to 20 t

PROPERTIES

- water-emulsifiable
- very good water permeability
- can also be processed in light rain
- for joint widths ≥ 5 mm
- open-pored
- frost-resistant and water-resistant after hardening
- can withstand vehicle loads
- effective in preventing weed growth in the joints
- suitable for road sweeping machines

COLOURS

- sand, stone grey, basalt

COMPOSITION

- Epoxy resin, epoxy hardener
- functional fillers
- pigments

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SUBSTRATE

Properties/tests	■ 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. ■ Required minimum joint depth: 30 mm (with bonded bedding layer of at least 20 mm) ■ Required minimum joint width: 5 mm ■ For large format tiles we recommend at least 5 mm or 1 % of the longest tile side as the joint width. ■ The sides of the paving units must be free of any impurities.
Pretreatment	■ 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	■ Do not use or allow to dry and harden in air, material or substrate temperatures of less than +5°C, in the case of expected night time frost or at temperatures of over +25°C, in direct sunlight, extremely heated substrates and/or in strong wind.
Mixing / Preparation / Processing	■ Mix both components for at least 3 minutes in a compulsory mixer or with a suitable mortar paddle. ■ Then add up to max. 10 % of clean tap water. ■ The optimal mortar consistency is reached when slight foaming appears. ■ After that, mix again for approx. 1 to 2 minutes.
Processing	■ Distribute the homogeneously mixed mortar onto the well pre-wet paving area and work into the joints with a rubber squeegee. ■ The spreading as a slurry grout can be supported/optimised by a light spray mist (e.g. with the tubag spray nozzle). ■ After approx. 10 to 15 minutes, the joints introduced are brushed off in a longitudinal and lateral direction with a hard brush. ■ The film of binding agent remaining on the stones is sprayed off with a water spray after another 20 to 30 minutes.
Processing / Working time	■ approx. 20 minutes ■ Timings relate to +20°C and 60% 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	■ The paving area can be walked on by pedestrians after approx. 24 hours and can withstand full loads at the earliest after 7 days (at +20°C and 60 % rel. humidity). ■ When working indoors, ensure good ventilation.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ Optically related areas must be prepared with material from the same production batch to prevent colour differences. ■ In case of hail and heavy rain, the grouted area must be covered. ■ 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. ■ Over time, some discolouration could take place due to the effects of dirt and weathering. ■ The statements are made based on extensive tests and practical experiences. They cannot be applied to every case, however. To assess the optimal appearance, we recommend preparing a sample area with the relevant fastening element.

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PACKAGING

- 25 kg/bucket

STORAGE

- Store in the original, unopened packaging in dry, frost-free conditions.
- 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

	Top surface	Quantities required* 8 mm joint width	Quantities required* 12 mm joint width
Large paving units	140 x 160 mm	approx. 4.6 kg/m²	approx. 6.7 kg/m²
Small paving units	90 x 110 mm	approx. 6.8 kg/m²	approx. 9.8 kg/m²
Mosaic paving	40 x 60 mm	approx. 12.8 kg/m²	approx. 18.0 kg/m²

*Calculation example for 30 mm joint depth

TECHNICAL DATA

Fresh raw density	approx. 1.45 kg/dm³
Compressive strength	≥ 25 N/mm²
Joint width	≥ 5 mm
Joint depth	≥ 30 mm, with bonded bedding layer ≥ 20 mm
Processing temperature	+5°C to + 25°C
Processing time	approx. 20 minutes

All data are average values which have been obtained under laboratory conditions in accordance with relevant test standards and application trials at +20°C and 60% relative air humidity. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety	■ Comprehensive instructions can be found in the DGUV Regulation 113-012 (previously BG regulations 227) “Activities with epoxy resins” issued by the trade associations. ■ Further information can be found in the safety data sheet at www.tubag.de.
Disposal	■ 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.