PFF ProLine

Paving grout

1-component, ready-to-use, water-permeable paving joint mortar

- for conventional slurry grouting
- vacuum-packed
- suitable for road sweeping machines
- water-permeable
- for light to medium traffic load
- compressive strength: ≥ 15 N/mm²

APPLICATIONS

- for repointing and repairing natural, concrete and clinker pavements
- for paving, natural stone and ceramic slabs and clinker pavements
- suitable for use-category N2 according to ZTV Wegebau (extra technical requirements for road building)
- for traffic surfaces subject to light vehicles up to 3.5 t

PROPERTIES

- ready for use
- very good water permeability
- self-compacting
- can also be used in drizzle
- for joint widths ≥ 3 mm
- open-pored
- can withstand vehicle loads
- effective in preventing weed growth in the joints
- sweeper suction machines suitable
- hardens under the influence of atmospheric oxygen
- applied using the conventional slurry grouting method
- frost-resistant and water-resistant after hardening

COLOURS

- sand, stone grey, basalt

COMPOSITION

- reactive binder
- mineral aggregates

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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. ■ The minimum joint width required to introduce the product for grouting using the slurry method is 3 mm. ■ The required joint depth is at least 30 mm, with bound bedding layer at least 20 mm. ■ For surfaces subject to traffic, the joint depth is at least 2/3 of the stone height. ■ Dimensions differing from these details are to be agreed with our application technology department. ■ 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	■ The required joint depth should be created by blowing or scoring out the joint. The paving surface should then be cleaned dry. ■ Depending on the absorption behaviour the paving surface should be wetted thoroughly several times. However, there should be no standing water in the joints when applying the paving stone grout mortar. ■ If necessary, apply tubag FHI over the entire surface of the pavement 24 hours before the jointing work to minimise binder residues (for application see TM tubag FHI).

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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	■ The product is ready for use.
Processing	■ 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	■ 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	■ 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	■ 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. ■ Working in several steps, intermesh the bedding layer and joint filling by at least 1 m so that the joint filling does not end directly above the end of the last bedding section. ■ Leaking joints should be avoided. ■ 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. ■ These statements are based on extensive tests and practical experience. However, they are not transferable to every case. To assess the optimal appearance, we recommend laying a sample surface with the respective pavement element.

PACKAGING

■ 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.

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QUANTITIES REQUIRED / YIELD

Format / top surface	Quantity required, approximate
Large paving units* 160 x 190 mm	5.0 kg/m²
Large paving units* 140 x 170 mm	5.5 kg/m²
Small paving units* 100 x 100 mm	9.0 kg/m²
Small paving units* 90 x 90 mm	9.5 kg/m²
Mosaic paving* 60 x 60 mm	13 kg/m²
Mosaic paving* 50 x 50 mm	15 kg/m²

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

TECHNICAL DATA

Grain	0,3 – 0,9 mm
Fresh raw density	approx. 1.8 kg/dm³
Compressive strength	(7 days) ≥ 15 N/mm²
Flexural strength	≥ 5 N/mm²
Dynamic Young's modulus (E)	ca. 2000 N/mm²
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
Trafficability	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	■ Follow further instructions in the safety data sheet.
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.