

PFV30

Paving grout

3-component, formulated reaction resin mortar with defined mineral grain mixture for heavy traffic loads

- specially developed for road construction
- with high frost and de-icing salt resistance
- suitable for road sweeping machines
- compressive strength: $\geq 30 \text{ N/mm}^2$



APPLICATIONS

- For repointing and repairing paving and natural stone slabs as well as clinker pavements
- suitable for use-category N3 according to ZTV Wegebau (extra technical requirements for road building)
- suitable for use in load class 0.3 RStO 12 (poss. also higher)
- Suitable for horizontal and vertical grouting of gutters, gutters, lines and kerbstones made of concrete and natural stone
- For the production of cement- and water-free bedding and levelling mortar
- As bedding mortar for pavalable manhole covers

PROPERTIES

- effective in preventing weed growth in the joints
- free-flowing
- self-compacting
- specially matched compressive strength
- three-component
- good workability
- high frost and de-icing salt-resistance
- suitable for road sweeping machines

COLOURS

- sand, stone grey, basalt

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SUBSTRATE

- | | |
|-------------------------|--|
| 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 required minimum joint depth is 25 mm for small pavers and 30 mm for large pavers.■ The entire construction must be water permeable, so that penetrating water can drain away.■ 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.■ Dimensions differing from these details are to be agreed with our application technology department. |
| Pretreatment | <ul style="list-style-type: none">■ 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).■ Manhole covers that can be paved must be pretreated with strasser EG epoxy resin primer. |
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PROCESSING

Temperature	<ul style="list-style-type: none">■ Do not process and allow to harden in case of air, material and substrate temperatures of less than +10 °C or over +25 °C.
Mixing / Preparation / Processing	<ul style="list-style-type: none">■ Mix the sand component A in a forced mixer or with a mortar mixer. During the mixing process the resin component H, hardener component I and 2.5 l of water are added. Care must be taken to empty the plastic bottles of the components completely. Mixing time at least 5 minutes.■ Repotting is recommended.
Processing	<ul style="list-style-type: none">■ The finished homogeneous mortar is now spread on the well pre-wetted paving surface and worked into the joints with a rubber scraper. 10-15 minutes after incorporation, the surface is swept clean with a medium-hard broom. If pavers or slabs with chamfered edges are used, the joint may only be filled with grout up to the lower edge of the chamfer after cleaning. Do not place swept-off mortar residues in joints that are still open. After another 10-15 minutes, the mortar residues are swept off with a soft broom. The paved surface must be carefully cleaned of mortar residues, since components that are not removed are fixed to the surface by hardening of the resin and subsequent cleaning can only be done mechanically.■ When used as bedding and levelling mortar no addition of water is required. Laying is carried out fresh in fresh. The underside of the paving elements must be coated with strasser EG epoxy resin primer before laying. The joints are also filled with PFV paving joint mortar, mechanically compacting the mortar to ensure a dense mortar structure.
Processing / Working time	<ul style="list-style-type: none">■ Approx. 20 minutes at 20°C and 65% relative air 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 newly plastered pavement shall be protected from rainwater for a period of 24 hours. If protective foil is used, adequate ventilation must be provided (do not place foil directly on the patch). The paving area is accessible after approx. 24 hours and can be fully loaded after approx. 7 days.
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">■ 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.■ 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

- 27,5 kg/set (filler mixture + resin component + hardener component)

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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QUANTITY REQUIRED / YIELD

Head area approx.:	Consumption* approx.:
Large paving stones 140 x 170 mm	4.6 kg/m ²
Small paving stones 100 x 100 mm	6.8 kg/m ²
Mosaic paving stones 50 x 50 mm	12.8 kg/m ²

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

TECHNICAL DATA

Grain	0,3 – 1,2 mm
Fresh raw density	ca. 1,5 kg/dm ³
Compressive strength	≥ 30 N/mm ²
Joint width	≥ 8 mm
Joint depth	at least 2/3 of the stone height, ≥ 30 mm
Processing temperature	+10 °C to +25 °C
Processing time	approx. 20 minutes

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">■ The products contain reactive ingredients and are sometimes harmful to health when uncured. The resin components can cause burns due to high alkalinity or have irritating and sensitizing effects. Skin contact should be avoided and the materials should be washed off immediately with plenty of soap and water. In case of eye contact, rinse with plenty of water and consult a doctor.■ 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).

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.