

vdw 800

Epoxy Paving Joint Mortar

For natural stone, reconstituted stone and concrete block paved surfaces on patios, paths, driveways, commercial areas and other hard landscaped surfaces.



for light traffic loads



water permeable



joint width:
≥ 5 mm

- natural



- stone grey



- basalt



The classic!



GftK

professional quality

Additional features



- fast and cost effective
- clean, stain free surfaces
- water permeable
- self-compacting
- mechanical sweeper resistant

- abrasion resistant
- highly frost and de-icing salt resistant
- durable
- environmentally friendly
- adjustable consistency

Technical data

Product description

Reaction-resin based, water permeable paving joint mortar, with graded aggregates.

Binder:	2-component paving joint mortar, solvent-free, water emulsifiable epoxy resin
Joint width:	continuously min. 5 mm
Joint depth:	min. 30 mm, for areas with vehicle traffic: full block height; for joint widths ≥ 15 mm the jointing depth must be at least twice the joint width
Packaging:	PP bucket (25 kg)

Material data

Flexural strength:	approx. 5,0 N/mm ²
Compressive strength:	approx. 15,0 N/mm ²
E-Modulus:	approx. 3400 N/mm ²
Water permeability:	$5,08 \cdot 10^{-3}$ m/s (60 l/min/m ² at 20 % joints)
Shelf life:	1 year in original, unopened, sealed and undamaged packaging, if kept dry and frost-free

Application data

Mixing ratio of components:	A : B = 100 : 3,6
Opening time:	approx. 15 min. at 20° Celsius after proper mixing
Ambient temperature:	min. 7 °C / 44,6 °F to max. 30 °C / 86 °F
Substrate temperature:	min. 7 °C / 44,6 °F to max. 30 °C / 86 °F
Material temperature:	min. 7 °C / 44,6 °F to max. 30 °C / 86 °F

Consumption

The consumptions stated in the following table refer to areas of natural stone setts with cropped or riven edges and have been compiled from our experience. The natural shape of setts and different paving designs or laying techniques, may result in variations to these values. There is no allowance included for any loss or wastage etc. **All of the examples in the table refer to a joint depth of 10 mm and must be multiplied by the actual depth of the joint.**

Please see our consumption calculator at:

gftk-international.com/jointing-mortar-usage-calculator



	Dimensions in mm		Approx. in kg / m ² , for joint widths		
	Width	Length	5 mm	10 mm	15 mm
Cubes	40	40	3,6	6,4	8,7
	50	50	2,9	5,3	7,4
	40	60	3,0	5,5	7,6
Small setts	100	120	1,4	2,7	3,9
	100	100	1,5	2,9	4,2
	80	100	1,7	3,2	4,6
	60	80	2,2	4,1	5,7
Larger setts	160	180	0,9	1,8	2,6
	140	180	1,0	1,9	2,8
	120	160	1,1	2,2	3,1

Application



Clean the surface in order to remove all residues



Fully saturate the pavement surface with clean water



Add liquid binder component



Add a quantity of clean water equal to a max. of double the quantity of the liquid hardener



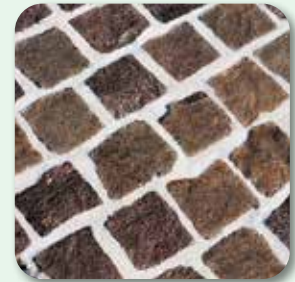
Mix to achieve a fully homogeneous consistency



Work thoroughly into the joints



Remove any excess mortar with a damp coconut fibre brush



Please follow aftertreatment!

Requirements:

A stable, load-bearing, permanently water permeable substrate, joint depth ≥ 30 mm (for areas with vehicle traffic: full joint depth), joint width continuously ≥ 5 mm, outside and surface temperature min. 7°C to max. 30°C .

Test area:

On natural stone setts and concrete block paving, contact between the **vdw 800 Epoxy Paving Joint Mortar** and the stone surface may result in visual changes such as darkening and/or spotting. We generally recommend applying a **test area** first. If necessary, we recommend the use of **vdw 950 Stone Protection Plus 3 in 1**.

Preparation:

Clean the surface of all dirt, cement residues, organic materials, or any other contaminants, including cleaning out all of the joints to the required depth.

Pre-Wetting:

Fully saturate the surface of the paving. Always use fresh and cool tap water when wetting and cleaning.

Mixing the joint mortar:

Pre-mix the aggregate, then add the binder. Then add a quantity of clean water equal to max. double the quantity of the liquid hardener (use the empty component B bottle as a measure), and mix to achieve a fully homogeneous consistency. Mixing time: min. 3 minutes until smooth and homogeneous.

Filling the joints:

Apply immediately after mixing by pouring directly onto the pre-wetted surface. Work the mortar thoroughly into the joints using a hard rubber squeegee. We recommend working from the highest to the lowest points.

Brushing off / Cleaning:

After approx. 15 – 20 minutes the **vdw 800 Epoxy Paving Joint Mortar** should have achieved a semi-dry consistency. At this stage, remove any excess mortar completely using a damp coconut fibre brush. Do not sweep mortar residues into joints still open. Frequently clean the brush in water.

Aftertreatment:

All following information relates to a temperature of 20 °C / 68 °F and 65 % relative humidity. Higher temperatures will reduce, lower temperatures will increase the time. Cordon off the freshly **vdw 800** jointed areas for a period of at least 12 hours after which the areas can be walked over. Protect the freshly laid area from rain or waterflow for a period of at least 12 hours (do not place the covers directly onto the paving; ensure that the air can circulate freely over the surface). The area can be fully opened for use by vehicular traffic after 7 days. Tools can be cleaned with water whilst the mortar is fresh. Chamfered edges must be brushed free of the **vdw 800** mortar. Cured mortar can only be removed mechanically.

Important information

Substrate

vdw 800 Epoxy Paving Joint Mortar is a jointing material and cannot absorb settlement from the substrate. The substrate, supporting structure and surfacing must be designed to accommodate the anticipated traffic load.

Bedding

- In pedestrian areas: It is acceptable to lay the paving and slabs on a fully compacted and stable, permeable sand or gravel bed. However, it is always better and more durable to lay paving in a permeable concrete or mortar bed; otherwise, increased cracking may occur. We recommend **vdw 480 Bedding Compound** and **vdw 495 Adhesive Slurry**.
- In trafficked areas: Paving and slabs must be laid in a permeable concrete or mortar bed designed for the relevant load – we recommend to use **vdw 480 Bedding Compound** and **vdw 495 Adhesive Slurry**.



Joints

- **Minimum joint depth:** The minimum joint depth for **vdw 800 Epoxy Paving Joint Mortar** is 30 mm, in areas with vehicle traffic the full joint depth. For jointing of polygonal paving laid in a permeable mortar bed with a suitable bond coat the minimum joint depth in pedestrian traffic only areas can be reduced to 20 mm.
- **Minimum joint width:** The minimum joint width for **vdw 800 Epoxy Paving Joint Mortar** is 5 mm.
- For joint widths ≥ 15 mm, the jointing depth must be at least twice the joint width.
- Chamfers must be brushed free, as performance cannot be guaranteed on these.
- Movement joints must be positioned according to the Safety Principles. Movement joints must be installed as necessary to comply with the required structural design and any anticipated levels of movement. Use a suitable flexible joint compound.

Safety information: When using **vdw 800 Epoxy Paving Joint Mortar** avoid contact with skin and wear protective clothing (ppe) including safety glasses, gloves, etc. Keep away from children. There should be sufficient ventilation when working in enclosed spaces. Unmixed material requires disposal as special waste. Mixed and fully cured material is inert and does not require special disposal.

The information on this Technical Data Sheet (TDS) is intended to give advice based on our testing and experience. We cannot guarantee results in any individual circumstances due to the variety of potential situations which are beyond our control. Specific project testing should be carried out where required. The information on this TDS is subject to amendment and the user must ensure they have the latest information. Our General Conditions of Sale and Supply apply.

No direct legal liability can be assumed based on the data in this TDS, or from any verbal advice unless this advice is expressly confirmed by us in writing. This TDS replaces all previous versions.

Rheinbach-Flerzheim, March 2021

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Jointing Mortars

*Proven and tested
for more than 30 years!*

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Joint Mortar

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Bonding Slurry

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Bedding Mortar



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