vdw 835 N – Heavy Duty Paving Joint Mortar

For grouting of paving and clinker bricks in public areas.



for light to heavy traffic loads



FB ≥ 10 mm



clean surface

- natural



- stone grey



- basalt



GftK

Quality for Professionals

Further properties









- heavy-duty
- low water permeability / when properly compacted impermeable to water
- high frost and de-icing salt resistance
- non-shrink setting
- mechanical sweeper resistant

Technical Data

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

Binder:	2-component, solvent-free, water emulsifiable epoxy resin
Joint width:	continuously min. 10 mm
Joint depth:	min. 30 mm; for areas with vehicle traffic we recommend the full joint depth; for joint widths ≥ 15 mm the jointing depth must be at least twice the joint width
Packaging:	2 bottles of 1.5 kg resin / hardener each, 25 kg bag of aggregate mix

Material data

Flexural strength:	approx. 15.0 N/mm²
Compressive strength:	approx. 45.0 N/mm²
E-Modulus:	approx. 8500 N/mm²
Storage life:	1 year, stored dry and frost-free

Application data

Mixing ratio:	A : B : sand = 1.5 : 1.5 : 25
Pot life:	approx. 5 min. at 20 °C after material preparation
Outside temperature:	> 5 °C, max. 25 °C
Substrate temperature:	> 5 °C, max. 25 °C

Ecology

Water hazard class:	Resin component:	Class 2	(clear liquid)
	Hardener component:	Class 2	(yellow liquid)
Disposal code:	Component A:	080410, 080499	(clear liquid)
	Component B:	080409, 080499	(yellow liquid)

Consumption

The consumptions stated in the table refer to setts cut on all sides and laid as coursed paving, and are based on our many years of experience. The natural shape of the setts and different laying patterns may result in deviations. If in doubt, determine the consumption on a test area. The values refer to a joint depth of **10 mm** and must be multiplied by the actual joint depth. **Also use our consumption calculator at: www.gftk-info.de/verbrauchsrechner**

	Dimensions in mm		approx. consumption kg/m² for joint widths		
	Width	Length	10 mm	15 mm	20 mm
Block paving	100	120	2,9	4,2	5,4
	100	100	3,2	4,2	5,8
	80	100	3,5	5,0	6.4
	60	80	4,4	6,3	7,9
Sett paving	160	180	2,0	2,8	3.7
	140	180	2,1	3,0	3,9
	120	160	2,4	3,4	4,4

Application



clean the surface free of residues



pre-wet the surface



put in the aggregate first



add the binder components



mix until homogeneous



work in the mortar



clean off with a water jet and a damp broom



Bear in mind post-treatment!

Requirements:
A stable, load-bearing, permanently water permeable substrate suited to the anticipated loads, joint depth ≥ 30 mm (full joint depth on areas with vehicle traffic), joint width continuously ≥ 10 mm, outside and surface temperature ≥ 5 °C, max. 25 °C.

Test area:
On natural stone and concrete block paving, contact between **vdw 835 N Heavy Duty Paving Joint Mortar** and the stone surface may cause visual changes such as darkening and/or spotting. **We strongly recommend always applying a test area first.** Where necessary we recommend using **vdw 950 StoneProtect 3 in 1**.

Preparation:
Clean the surface to be jointed free of any residues.

Wetting:
Saturate the surface thoroughly. Always use clean, cool tap water for wetting, mixing and cleaning!

Mixing the paving joint mortar:
Add the bottle contents to the aggregate and mix until homogeneous. **Do not add water!**

Filling the joints:
Pull the mortar over the whole wet surface with a hard rubber squeegee and work it thoroughly into the joints. It is advisable to joint from the highest to the lowest point. To produce joints impermeable to water, the joint mortar must afterwards be compacted (e.g. with a jointing iron or a tamper); this is essential.

Brushing off:
Remove mortar residues from the surface after approx. 5 min. with a water jet. Alternatively the surface can be swept diagonally to the joints with a wet broom.

Curing:
The following points refer to a temperature of 20 °C and 65 % relative humidity (high temperatures shorten, low temperatures lengthen the curing time). Cordon off the freshly jointed area for a period of at least 24 hours, or until the paved surface is no longer tacky. The areas can then be walked on. Final release of the areas to traffic after 3 – 5 days at the earliest. In principle a strength test should be carried out before the areas are put into service.

Important Notes

Substrate
As a jointing material, **vdw 835 N Heavy Duty Paving Joint Mortar** cannot absorb settlement from the substrate. Substrate, sub-base and surfacing must be designed to suit the anticipated traffic load.

Bedding
• **Pedestrian loading:** Laying the setts or slabs in a stable, free-draining sand or chipping bed is sufficient. Better: lay the slabs in a free-draining concrete or mortar bed; we recommend **vdw 480 Bedding Compound** or **vdw 490 Universal Trass Drain Mortar** and **vdw 495 Universal Adhesive Slurry**, as increased cracking may otherwise occur.
• **Vehicle loading:** Setts or slabs must be laid in a free-draining concrete or mortar bed to suit the loads occurring – we recommend **vdw 480 Bedding Compound** or **vdw 490 Universal Trass Drain Mortar** and **vdw 495 Universal Adhesive Slurry**.

Joints
• **Minimum joint depth:** The minimum joint depth for **vdw 835 N Heavy Duty Paving Joint Mortar** is 30 mm, on areas with vehicle traffic the full joint depth.
• **Minimum joint width:** The minimum joint width for **vdw 835 N Heavy Duty Paving Joint Mortar** is 10 mm.
• For joint widths ≥ 15 mm the jointing depth must be at least twice the joint width.
• Chamfers on slab and clinker paving must be exposed, as sufficient adhesion is not ensured.
• Movement joints must be arranged in accordance with the construction principles. Joints from the substrate and at abutments to structures must be carried through. Joint with an elastic joint material.
• Joints made impermeable to water do not count as watertight joints, nor do they replace a waterproofing layer.

With these notes we wish to advise to the best of our knowledge on the basis of our tests and experience. Because of the many possible applications and the storage and application conditions of our products, which are beyond our control, we cannot however accept any warranty for the work result in individual cases. Carry out your own tests. Our technical advisory service is always available at Technik@gftk-info.de. Subject to change.

Please always refer to our detailed brochure “Application Technology Notes”. You can request it from your dealer or directly from us!

No direct legal liability can be derived either from the notes in this product information or from verbal advice, unless the content of the advice is expressly confirmed by us in writing. With the publication of this product information all previous versions become invalid.

Rheinbach-Flerzheim, March 2022

vdw Mortar Systems

for concrete, natural stone, ceramic and clinker paving



How to reach us:

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We are glad to support you with your project!

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