vdw 400 – Cement Based Jointing Mortar

New formula

Cement-based, polymer-modified, rapid-hardening jointing mortar for natural stone and concrete paving, indoors and outdoors.



for light to heavy traffic loads



impermeable to water



joint width ≥ 5 mm ≤ 50 mm



for particularly wide joints

- cement grey



Further properties

- impermeable to water
- highly frost and de-icing salt resistant
- highly free flowing
- self-compacting
- mechanical sweeper resistant
- ideal for polygonal slabs
- suitable for high-pressure cleaners
- early pedestrian access and loading
- compressive strength of 35 N/mm²
- environmentally friendly
- can be mixed in part quantities

GftK

Quality for Professionals

Application



clean the surface free of residues


pre-wet the surfaces


pour in max. 3.5 – 4.0 l of water


add the jointing mortar


work in the mortar


do not let the mortar harden on the surface


clean diagonally to the joint


follow the curing notes!

Requirements:
Stable substrate, fill the continuously open, non pre-filled joint, joint width ≥ 5 mm, ≤ 50 mm, paved area temperature **min. 5 °C, max. 25 °C**.

Preparation:
Fix loose blocks. Protect gullies against penetrating joint material, e.g. with a filter fleece. Clean the area to be jointed free of residues. Remove loose particles from the joints and the block flanks.

Test area:
Cement-based jointing mortars are subject to the natural ageing process. To counteract this, the products are factory-set to harden rapidly. This ensures workability throughout the entire shelf life. The reaction speed must therefore be checked before jointing. On natural stone and concrete block paving, contact between **vdw 400** and the stone surface may cause visual changes such as darkening and/or spotting. We generally recommend applying a **test area**.
On absorbent paving we recommend using **vdw 950 StoneProtect 3 in 1**.

Wetting:
Pre-wet the surfaces. On natural stone with a rough surface, reconstituted stone or absorbent paving blocks, the surface must be wetted **very thoroughly** before applying **vdw 400**. On coated concrete slabs wet only lightly, because of their low absorbency. **Standing water in the joints must be avoided**.

Mixing the jointing mortar:
Pour 3.5 – 4.0 l of water per 25 kg bag into a clean mixing vessel. Add **vdw 400** and mix to a homogeneous, lump-free and pourable mortar. Part quantities can also be mixed in the corresponding mixing ratio.

Filling the joints:
Pour the mortar onto the wet surface, spread it over the paving with a rubber squeegee across the full area and work it intensively into the joints. Apply the mortar so that the joint cross-section is completely filled. Strike off surplus jointing mortar with the rubber squeegee. We recommend jointing from the highest to the lowest point.

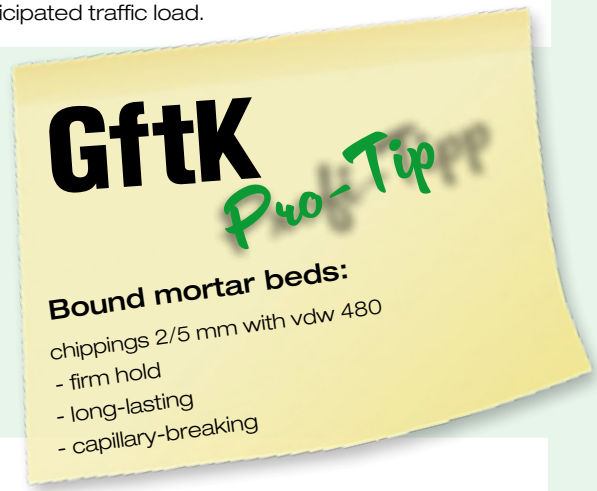
Cleaning:
Avoid letting vdw 400 harden on the paving surface by using circular movements with a wet broom. After a sufficient hardening time (the joints can barely be pressed in – after approx. 25 min at 20 °C), wash the paving clean diagonally to the joint cross-section using floor washing equipment, a scrubber, a spray nozzle or a fan nozzle, without washing out the joints. Finally clean the stone surface free of residues with a spray jet.

Curing:
The following points refer to a temperature of 20 °C and 65 % relative humidity (high temperatures shorten, low temperatures lengthen the curing time). Protect the setting mortar from drying out too quickly (direct sunlight, draughts) and from frost and temperatures < 5 °C and > 30 °C. Cordon off the freshly jointed areas for a period of at least 4 – 6 hours. The areas can then be walked on. Protect the freshly jointed areas from heavy rain for at least 12 hours. Do not lay sheeting directly on the surface, provide ventilation underneath. Loading of the area: accessible on foot after 4 – 6 hours, trafficable by cars after 3 days, fully loadable after 7 days. In principle a strength test should be carried out before the areas are put into service.

Important Notes

Substrate
vdw 400 Cement Based Jointing Mortar is a jointing material and cannot absorb settlement from the substrate. Substrate, sub-base and surfacing must be designed to suit the anticipated traffic load.

Bedding
- Lay paving or 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**.
- Select the bedding mortar to suit the anticipated loads.



Joints
- **Minimum joint depth:** The open, at least 20 mm deep, non pre-filled joint must be filled over its full depth.
- **Minimum joint width:** The joint width for **vdw 400** is at least 5 mm, maximum 50 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 must be carried through. Joint with a suitable elastic joint material. We recommend **vdw 885 plus FugenFlex**.

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, January 2026

Technical Data

Product description
Cement-based, polymer-modified, rapid-hardening, waterproof jointing mortar with graded mineral aggregates.

Binder:	selected special cements, low in chromate to TRGS 613
Joint width:	continuously at least 5 mm*; for joint widths ≥ 15 mm the jointing depth must be at least twice the joint width
Joint depth:	fill the continuously open, non pre-filled joint
Packaging:	25 kg bag

Material data

Compressive strength:	after 24 hours	approx. 15 MPa
	after 7 days	approx. 25 MPa
	after 28 days	approx. 35 MPa
Water permeability:	impermeable to water	
Storage life:	9 months, stored dry and frost-free	

Application data

Added water:	3.5 – 4.0 litres per 25 kg bag
Pot life:	approx. 15 minutes at 20 °C after mixing
Ambient and substrate temperature:	min. + 5 °C, max. + 25 °C

Ecology

Water hazard class:	Class 1
Disposal code:	170101, 101314

***Note on the joint width**
The minimum joint width stated in our technical data sheets does not describe the target joint width to be planned or built for the paving. Rather, it indicates the joint width from which our jointing mortars can be applied reliably and functionally – including in those parts of a joint that may turn out locally narrower, e.g. because of dimensional tolerances of the paving materials.
The planning and execution of joint widths always follow the recognised rules of engineering, in particular the requirements of ZTV-Wegebau, ZTV-Pflaster-StB, ATV DIN 18318 or other relevant standards and guidelines for paving and slab surfaces. These define the minimum joint widths required for different construction methods and load classes to ensure a permanently functional construction.

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 in kg/m², for joint width		
	Width	Length	5 mm	10 mm	15 mm
Sett paving	160	180	1,1	2,2	3,3
	140	180	1,2	2,4	3,5
	120	160	1,3	2,6	3,8
Block paving	100	120	1,7	3,4	4,8
	100	100	1,9	3,6	5,2
	80	100	2,1	4,0	5,8
	60	80	2,7	5,1	7,2
Mosaic paving	40	40	4,4	8,0	10,9
	50	50	3,6	6,7	9,2
	40	60	3,8	6,9	9,5
Slab paving	600	400	0,4	0,8	1,2
	400	400	0,5	1,0	1,5
	300	300	0,7	1,3	1,9
	200	200	1,0	1,9	2,8

vdw Mortar Systems

for concrete, natural stone, ceramic and clinker paving



How to reach us:

Write to us or give us a call:

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We are glad to support you with your project!

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