vdw 850 plus – 2K Jointing Mortar self-compacting

For jointing natural stone setts, concrete block paving and clinker paving on traffic areas and trafficked surfaces.



for light to medium traffic loads



clean surface



permeable to water



no covering



width ≥ 5 mm



for particularly wide joints

- natural



- stone grey



- basalt



Further properties

- fast, economical and durable jointing
- clean paved surfaces
- permeable to water
- self-compacting
- mechanical sweeper resistant
- abrasion resistant
- highly frost and de-icing salt resistant
- durably filled joints
- can also be applied in rain and at low temperatures
- reduced risk of accidents

GftK

Quality for Professionals

Technical Data

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

Binder:	2-component, solvent-free, water emulsifiable epoxy resin
Joint width:	continuously at least 5 mm*
Joint depth:	min. 30 mm, full block height on trafficked areas; for joint widths ≥ 15 mm the joint depth must be at least twice the joint width
Packaging:	PP bucket 25 kg

Material data

Flexural strength:	approx. 10.0 N/mm²
Adhesive tensile strength:	approx. 1.5 N/mm²
Compressive strength:	approx. 33.0 N/mm²
E-Modulus:	approx. 5,500 N/mm²
Water permeability:	1.5 x 10^{-4} m/s (approx. 1.8 l/m²/min at 20 % joints)
Storage life:	1 year, stored dry and frost-free

Application data

Mixing ratio:	A : B = 100 : 2.7
Pot life:	approx. 10 minutes at 20 °C after mixing
Outside temperature:	min. 3 °C, maximum 25 °C
Substrate temperature:	min. 3 °C, maximum 25 °C

Ecology

Water hazard class:	Resin component: Class 2, hardener component: Class 2
Disposal code:	Resin component: 080410, 080499, Hardener component: 080409, 080413, 080499

***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 trial 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	5 mm	10 mm	15 mm
Mosaic paving	40	40	3,8	6,8	9,3
	50	50	3,1	5,7	7,8
	40	60	3,2	5,8	8,0
Block paving	100	120	1,5	2,9	4,1
	100	100	1,6	3,1	4,4
	80	100	1,8	3,4	4,9
	60	80	2,3	4,3	6,1
Sett paving	160	180	1,0	1,9	2,8
	140	180	1,0	2,0	3,0
	120	160	1,2	2,3	3,3

Application

You will find further information in this application video



Clean the surfaces completely, pre-wet the surface



add the binder component



Mix homogeneously



Work in the mortar



Clean with a water spray …



… and a damp brush



Follow the curing notes!

Requirements:
vdw 850 plus needs a stable, load-bearing and permanently water permeable substrate. The joint depth must be ≥ 30 mm (full joint depth on trafficked areas) and the joint width continuously ≥ 5 mm. The joint mortar can be used at a paving and air temperature of min. 3 °C to max. 25 °C.
From a consumption of ≥ 4 kg/m², **vdw 850 plus** can be used universally on setts, slabs and clinker paving.

Test area:
On some paving materials, contact between **vdw 850 plus Jointing Mortar self-compacting** 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 plus 3 in 1**.

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

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

Mixing the jointing mortar:
Pre-mix the aggregate/binder blend, then add the binder and mix until homogeneous for approx. 3 minutes.
No water may be added to the mix!

Filling the joints:
Work the mortar into the joints **immediately** with a hard rubber squeegee – as far as possible diagonally to the joint. A water spray can be used to increase the flowability of the joint mortar. **The surface should be kept constantly wet during application.** We recommend working from the highest point downwards in the direction of the fall.

Brushing off / cleaning:
Immediately **clean off the excess mortar with a water spray**, without washing out the joints. Make sure that cleaning is carried out towards areas not yet jointed and that the stone surface is cleaned as well. Sweep off the last mortar residues with a **damp** coconut fibre brush.

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 areas for a period of at least 24 hours, or until the paving 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

vdw 850 plus 2K Jointing Mortar self-compacting is not recommended for jointing slab paving.
(Exception: polygonal slabs with a high proportion of joints, or slab paving with a consumption of at least 4 kg/m².)

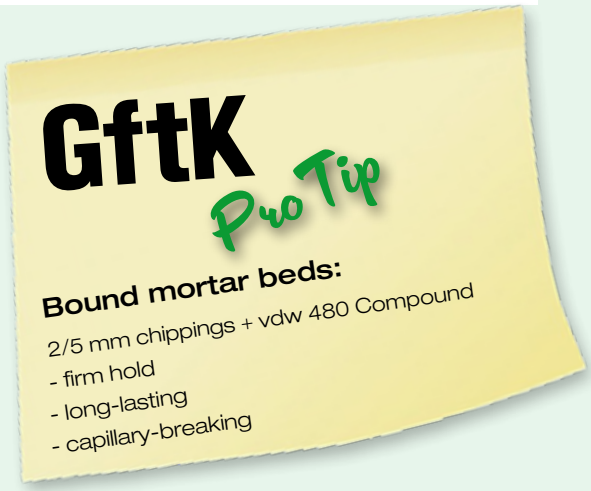
Substrate
vdw 850 plus Jointing Mortar self-compacting is a jointing material and cannot absorb settlement from the substrate. Substrate, sub-base and surfacing must be designed to suit the anticipated traffic load.

Bedding

- **Pedestrian loading:** Laying the paving and 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 470 Landscaping Drain Mortar/vdw 490 Trass Drain Mortar** and **vdw 495 Adhesive Slurry**, as otherwise increased cracking may occur.

- **Loading by motor vehicles:** the setts and 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 470 Landscaping Drain Mortar/vdw 490 Trass Drain Mortar** and **vdw 495 Adhesive Slurry**.



Joints

- **Minimum joint depth:** The minimum joint depth for **vdw 850 plus Jointing Mortar self-compacting** is 30 mm, on trafficked areas the **full joint depth**. When jointing polygonal slabs laid in a free-draining bed with a bonding slurry, the minimum joint depth can be reduced to 20 mm in pedestrian areas.

- **Minimum joint width:** The minimum joint width for **vdw 850 plus Jointing Mortar self-compacting** is 5 mm. For joint widths ≥ 15 mm the joint 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 line with the rules of construction. Joints from the substrate and at abutments to structures must be carried through. Joint with an elastic 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 on the free phone number 0 800 / 800 850 800 or 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 2026

vdw Mortar Systems

Build safely in the system!



vdw Jointing Mortar

vdw Adhesive Slurry

vdw Bedding Mortar

How to reach us:

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We are glad to support you with your project!

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