vdw 415 – Cement Based Jointing Mortar Color

Cement-based, rapid-hardening, early-loadable and frost-proof flexible jointing mortar for the easy jointing of ceramic, concrete and reconstituted stone slabs.



for pedestrian traffic



joint width ≥ 2 mm ≤ 20 mm



impermeable to water



suitable for high-pressure cleaners

- beige
- grey
- anthracite

Further properties

- self-compacting
- particularly easy to work in and wash off
- water- and dirt-repellent
- compressive strength 15 N/mm²
- high early strength
- can be mixed in part quantities

➡ complete joint filling even in narrow joints
➡ homogeneous joint surface & clean paving
➡ low-maintenance joints
➡ resistant to domestic high-pressure cleaners
➡ walkable after 2 hours / loadable after 12 hours
➡ also suitable for jointing individual joints

GftK

Quality for Professionals

Application



clean the surface free of residues



pre-wet the surface



pour in 2.8 – max. 3.3 l of water



add the jointing mortar / observe the maturing time



work in the mortar



do not let the mortar harden on the surface



clean diagonally to the joint



follow the curing notes

Requirements:
Stable, load-bearing substrate, continuously open, non pre-filled joints, joint width min. 2 mm, max. 20 mm, paved area temperature **min. 5 °C, max. 25 °C**.

Preparation:
Stabilise loose paving elements. 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:
On natural stone and concrete block paving, contact between **vdw 415** 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 areas. On natural stone with a rough surface, reconstituted stone or absorbent paving blocks, the surface must be wetted **very thoroughly** before applying **vdw 415**. On coated concrete slabs and ceramic terrace elements wet only lightly, because of their low absorbency (e.g. with a sponge board). **Standing water in the joints must be avoided.**

Mixing the jointing mortar:
Pour 2.85 – 3.3 l of water per 15 kg bag into a clean mixing vessel. Add **vdw 415** and mix to a homogeneous, pourable mortar. Then leave to mature for 3 – 5 minutes and mix briefly again. Settling of the mineral aggregate (sedimentation) must be avoided. Part quantities can also be mixed in the corresponding mixing ratio.

Filling the joints:
Pour the mortar onto the wet surface and work it intensively into the joints with a jointing board under light pressure. Apply the mortar so that the joint cross-section is completely filled. Strike off surplus jointing mortar with the jointing board.

Cleaning:
Caution: Avoid letting vdw 415 harden on the paving surface by using circular movements with a wet sponge board as soon as the mortar turns matt on the surface. After a sufficient hardening time (the joints can barely be pressed in – after approx. 30 min at 23 °C), clean the paving diagonally to the joint cross-section with a sponge board or floor washing machine, without washing out the joints.

Application examples









Perfect joints – fast, clean and durable

Our high-quality vdw 415 Color jointing mortar guarantees a completely filled joint, even where joints are narrow. At the same time vdw 415 Color produces a homogeneous, visually appealing joint surface and perfectly clean paving.

The finished joint is easy to maintain and stands up to domestic high-pressure cleaners – ideal for results that stay beautiful. Thanks to the rapid hardening, the area can be walked on after only 2 hours and takes full load after 12 hours.

Whether for large areas or the targeted jointing of individual joints – this jointing mortar offers maximum flexibility and the highest quality.

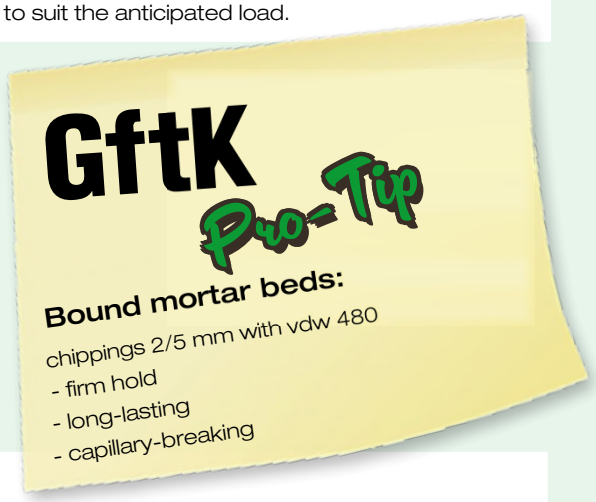
For professional results that impress.

Curing:
The following points refer to a temperature of 23 °C and 50 % 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 2 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 approx. 2 hours, mechanically loadable after approx. 12 hours. In principle a strength test should be carried out before the areas are put into service.

Important Notes

Substrate
vdw 415 Cement Based Jointing Mortar Color is a jointing material and cannot absorb settlement from the substrate. Substrate, sub-base and surfacing must be designed to suit the anticipated 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 415** is at least 2 mm, maximum 20 mm.
• 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, December 2025

Technical Data

Product description
Cement-based, rapid-hardening, early-loadable and frost-proof flexible jointing mortar

Binder:	selected special cements
Joint width:	continuously at least 2 mm*, max. 20 mm
Joint depth:	fill the continuously open, non pre-filled joint
Packaging:	15 kg bag

Material data

Compressive strength:	after 28 days – 15 N/mm² to DIN EN 13888 CG2 WA
Water permeability:	impermeable to water
Storage life:	12 months, stored dry and frost-free

Application data

Added water:	2.85 – 3.3 l per 15 kg bag
Pot life:	approx. 30-40 minutes at 23 °C and 50 % relative humidity after mixing. Stiffened mortar must not be made workable again either with water nor with fresh mortar.
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

To calculate the quantity of jointing mortar required, please use our consumption calculator at: www.gftk-info.de/verbrauchsrechner

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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