plus vdw 815

Epoxy Paving Mortar for flags and slabs (2-component)

Self-compacting paving joint mortar for high performance in narrow joints (> 3 mm)

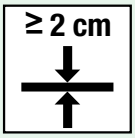
for light traffic loads

water permeable

joint width ≥ 3 mm

clean, stain free surfaces

no covering required



especially designed for thin-layer paving

- natural

- stone grey

- basalt (dark grey)

New formula! Very free flowing!

GftK

Quality for professionals

Additional features

- fast and cost effective jointing
- clean, stain free surfaces
- water permeable
- self compacting
- easily flow applied
- mechanical sweeper resistant
- abrasion resistant
- highly frost and de-icing salt resistant
- durable
- minimises the risk of accidents
- environmentally friendly
- can be applied in the rain and at low temperatures

Technical Data

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

Binder:	2-component, solvent-free, highly modified, water emulsifiable epoxy resin
Aggregate particle size:	0.1 – 0.9 mm
Joint width:	continuously min. 3 mm
Joint depth:	we recommend the full joint depth in trafficked areas, in bonded bedding min. 20 mm in non-bonded bedding min. 30 mm.
Packaging:	PP bucket (10 kg)

Material data:

Density (fresh):	1.7 g/cm ³
Density (cured):	1.6 g/cm ³
Flexural strength:	approx. 6.0 N/mm ²
Compressive strength:	approx. 15.0 N/mm ²
Water permeability:	$0.67 \cdot 10^{-3}$ m/s (approx 4 l/m ²/min at 10% joints)
Storage life:	1 year stored in a dry place away from frost

Application data

Mixing ratio of components:	A : B = 100 : 2.5
Pot life:	approx. 10 minutes at 20°C after mixing
Ambient temperature:	min. 3°C, max. 25°C
Substrate temperature:	min. 3°C, max. 25°C

Ecology

Water hazard class:	resin component: WGK 2, hardener component: WGK 2
Disposal code:	resin component: 080410, 080499 hardener component: 080409, 080413, 080499

Consumption

The consumptions stated in the following table refer to setts with cropped edges all around and have been compiled from our long experience. The natural shape of setts and different paving designs may result in variations to these values. If in doubt, determine the actual consumption on a test area. *The consumptions stated below apply to a joint depth of 10 mm and must be multiplied by the actual depth.*
Please see our consumption calculator at:
www.gftk-info.de/english/jointing-mortar-usage-calculator

	Dimensions in mm		Approx. consumption in kg/m², for joint widths of:		
	Width	Length	3 mm	4 mm	5 mm
Stone setts	600	400	0,2	0,2	0,3
	500	500	0,2	0,2	0,3
	500	400	0,2	0,3	0,3
	400	400	0,2	0,3	0,4
	300	300	0,3	0,4	0,5
	200	200	0,4	0,6	0,7

Application

Clean the surface and remove all residues

Wet the area

Add the binder component

Mix thoroughly until homogeneous

Work the mortar in

Clean with a hose spray ...

... and a damp coconut brush

Observe directions for curing!

Requirements:
A stable, load-bearing, permanently water permeable substrate, joint depth ≥ 30 mm (for areas with vehicle traffic: full joint depth), joint width continuously ≥ 3 mm, outside and surface temperature min. 3°C to **max. 25 °C**.

Test area:
On natural stone setts and concrete block paving, contact between the **vdw 815 plus Epoxy Paving Mortar** and the block surface may result in visual changes such as darkening and/or spotting. We generally recommend applying **a test area** first.

Preparation:
Clean the surface thoroughly of all dirt, cement residues, vegetation, organic material or other contaminants.

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 and mix with the drill and spherical paddle mixers for approx. 3 minutes until smooth and homogeneous. Do not mix partial quantities of the product.
No water should be added to the mix.

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, whilst spraying lightly with water from a hose. **The surface should be kept constantly wet during application.** We recommend working from the highest to the lowest points.

Brushing off/Cleaning:
Remove any excess mortar residue **immediately from the area by spraying lightly with water from a hose.** Be careful to clean the paved surface towards areas not yet jointed. Remove any final residual mortar with a **damp coconut fibre brush**. Do not brush this residual mortar into any unfilled joints. It is important to make sure that no water or residual mortar remains on the surface.

Curing

The following points apply to a temperature of 20°C and 65% relative humidity (high temperatures shorten and low temperatures lengthen the curing period).

Cordon off the freshly jointed areas for a period of at least 24 hours, or until the paving surface is no longer tacky. The area can then be made accessible to limited pedestrian traffic. The area can be fully released to vehicular traffic after 3–5 days, when fully hardened. In general, a strength test should be carried out before final clearance of the area.

Important information

Substrate

vdw 815 plus Epoxy Paving Mortar for flags and slabs 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 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 to use **vdw 470 Cement Based Pervasive Mortar for landscaping** or **vdw 480 Bedding Compound** and **vdw 495 Adhesive Slurry.**
- **In vehicular traffic areas:** Paving must be laid in a permeable concrete or mortar bed designed for the relevant load – we recommend **vdw 470 Cement Based Pervasive Mortar for landscaping** or **vdw 480 Bedding Compound** and **vdw 495 Adhesive Slurry**.

Joints

- Minimum joint depth: The minimum joint depth for **vdw 815 plus Epoxy Paving Mortar** is 30 mm, in areas with vehicle traffic the full joint depth. **In pedestrian traffic only areas the minimum joint depth can be reduced to 20 mm for jointing of paving laid in a permeable mortar bed with a suitable bond coat.**
- Minimum joint width: The minimum joint width for **vdw 815 plus Epoxy Paving Mortar** is 3 mm.
- 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. We recommend **vdw 880Joint Flex** or **vdw 885 Joint Flex Compact.**

The information in this Product Information Sheet 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 and the storage and application conditions for our products which are beyond our control. Specific project testing should be carried out where required. Our technical staff will be pleased to assist you at any time. We reserve the right to make changes without notice. Our Terms and Conditions of Sale and Delivery apply.

Rheinbach-Flerzheim, September 2015

vdw Jointing Mortars

Proven and tested for more than 30 years!

vdw Joint Mortar

vdw Bonding Slurry

vdw Bedding Mortar

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