

plus
vdw 815

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

High performance for light traffic loads



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

- Fast and cost effective
- Clean, stain free surfaces
- Water permeable
- Self-compacting
- Easily flow applied
- Mechanical sweeper resistant
- Excellent abrasion resistance
- Frost and de-icing salt resistant
- Durable
- Reduced risk of accidents
- Environmentally friendly
- Can be applied in the rain with no additional protection required
- Especially designed for thin-layer-paving

- natural



- stone grey



- basalt (dark grey)



*New formula!
Very free flowing!*

GftK

Product and Application Information

Site requirements: A stable, load-bearing, permanently water permeable substrate. **vdw 815 plus Epoxy Paving Mortar for flags and slabs** is a jointing material and cannot be used to compensate for any settlement of the substructure. The substrate, supporting structure and surfacing must be designed to accommodate the anticipated traffic load. Movement joints must be installed as necessary to comply with the required structural design and any anticipated levels of movement.

In pedestrian areas: In these areas it is acceptable to lay the paving on a 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. The paving should be laid as directed by the manufacturer or as stated in **BS 7533**.

In areas of vehicular traffic: To prevent increased crack formation in the joints, the paving should be laid on a permeable concrete or mortar bed in accordance with the relevant traffic loads and **BS 7533**.

Minimum joint depth: min. 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: continuously min. 3 mm.**

Application conditions: The ambient and substrate temperatures should be min. 3 °C / 37,4 °F and max. 25 °C / 77 °F. The **vdw 815 plus** material temperature should be min. 3 °C / 37,4 °F and max. 20 °C / 68 °F.

Due to the larger surface area on larger format paving (> 40 x 40 cm) the use of the smaller units of **vdw 815 plus** should be considered and increased care must always be taken at upper temperature limits to complete the installation within the appropriate working time.

Tools: A drill with twin spherical mixing paddles, a hose with spray nozzle, a squeegee and a coconut fibre brush. Tools can be cleaned with water whilst the mortar is fresh.

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 and pre-wetting: Clean the surface thoroughly of all dirt, cement residues, vegetation, organic material or other contaminants. **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 and 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: 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.

Chamfered edges must be brushed free of the **vdw 815 plus** mortar. Cured mortar can only be removed mechanically.

All times and timings relate to a temperature of 20 °C / 68 °F and 65 % relative humidity. Higher temperatures will reduce, whilst lower temperatures will increase them.

Consumption: The consumptions stated in the table below refer to areas of natural stone setts with cropped edges and has been compiled from our experience. There is no allowance for any loss or wastage, etc. The natural shape of setts and different paving designs may result in variations to these values. **If in doubt, determine actual consumption based on a test area. The amount in all of these examples in the table refer to a joint depth of 10 mm and must be multiplied by the actual depth of the joint.**

	Dimensions in mm		Approx. kg/m ² , for joint widths		
	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

Key technical values:

All GftK paving joint mortars are designed to have the ideal correlation between their compressive and flexural strengths, plus their modulus of elasticity values, according to their recommended areas of use. **vdw 815 plus:**

Flexural strength:	approx. 6.0 N/mm ²
Compressive strength:	approx. 15.0 N/mm ²
Permeability:	0,67 · 10 ⁻³ m/s (4 l/min/m ² at 10 % joints)
Storage:	1 year in original, unopened, sealed and undamaged packaging, kept dry and frost-free. Do not store over 20 °C / 68 °F.
Packaging:	10 kg (plastic pail) / 500 kg per pallet

Safety information: When using **vdw 815 plus** avoid contact with skin and wear PPE. Keep away from children. There should be sufficient ventilation when working in enclosed spaces. Unmixed and uncured material requires disposal as special waste. Mixed, fully cured material is inert and does not require special disposal. This information 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. The information on this TDS is subject to amendment and the user must ensure they have the latest information. Our General Conditions of Sale and Supply apply.

Contact:

No direct legal liability can be assumed based on the data in this product information sheet, nor from any verbal advice unless this advice is expressly confirmed by us in writing. This TDS sheet replaces all previous versions.