

vdw 805

Epoxy Paving Joint Mortar for narrow joints

High performance for light traffic loads



High performance for narrow joints (>3mm) in small format paving. Jointing mortar for small format natural stone, reconstituted stone and concrete block paved surfaces with narrow joints (>3 mm) and light to medium traffic loads, such as patios, foot-paths, driveways etc.

- Fast, durable and cost effective
- Easily flow applied
- Can be applied on damp/wet surfaces and in light rain
- Clean, stain free surfaces
- Optimum strength correlation
- Water permeable
- Mechanical sweeper resistant
- Abrasion resistant
- Highly frost and de-icing salt resistant
- No weeds or boring insects
- Environmentally friendly

- natural



- stone grey



- basalt (dark grey)



Quality for professionals

GftK

Product and Application Information

Site requirements: A stable load-bearing structure, a water permeable sub-base and the paving layer must all be correctly designed and installed for the anticipated traffic loads. **vdw 805** is a paving joint mortar and cannot be used to compensate for any settlement of the substructure. **vdw 805 paving joint mortar is not designed or suitable for waterproofing surfaces. vdw 805 can be applied in conditions of high humidity and light rain.**

vdw 805 is NOT suitable for jointing textured paving surfaces or stone setts with chamfers. Movement joints must be installed as necessary to comply with the required structural design and any anticipated levels of movement. Movement joints need to be flexible.

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. The paving should be laid as directed by the manufacturer, or as stated in **BS 7533**.

In vehicular traffic areas: The paving should be laid on a permeable concrete or mortar bed in accordance with the relevant traffic loads and **BS 7533**.

Joint depth: min. 30 mm. We recommend the full joint depth of the bedded paving in heavy or frequently trafficked areas. In pedestrian only areas the minimum joint depth can be reduced to 20 mm for the jointing of paving laid in a permeable mortar bed with a suitable bond coat (please ask our technical specialists for advice on the most suitable bond-coats for your project).

Joint width: continuously min. 3 mm. For joint widths greater than 15 mm, the joint depth must be at least twice the joint width.

For application, external, substrate and material temperatures should be min. 7°C/44,6°F to max. 30°C/86°F.

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: Changes in appearance such as darkening and/or staining may occur with some porous or sensitive natural stone and concrete block paving surfaces in contact with **vdw 805**. This results from the contact between **vdw 805** and the paving surface and is not an installation defect or a defect in the product. Colour variations between the different mortar products are unavoidable due to the different mineral materials, binders and aggregates. Colours in the product informations are also subject to print and screen variations and so these are an indication only. **Therefore always apply a test area first.**

Preparation/Pre-wetting: Clean the surface of all dirt, cementitious residues, organic material, vegetation or other contaminants. Clean joints to the required depth. **Fully saturate the pavement surface.** Mask adjacent surfaces which are not to be jointed. **Always use fresh and clean tap water!**

Mixing vdw 805: Pre-mix the base material. Then add all of the liquid binder and mix with the drill and spherical paddle mixers until smooth and homogeneous. **Mixing time: approx. 3-5 minutes. No water should be added to the mixing process!** Any material that is not thoroughly mixed must not be used and to avoid this is good practise to pour the mixed material into an empty pail and briefly mix again before applying it.

Filling the joints: Apply immediately after mixing by pouring directly onto the pre-wetted surface. Work the material thoroughly into the joints using the rubber squeegee. The product is very free flowing. We recommend working from the highest to the lowest point. **Do not mix partial quantities** of the product. **Any unmixed material must not be used.**

Brushing off: Remove any excess mortar residue from the area after about **5-10 minutes** (immediately at temperatures over 25°C/77°F) with a **damp** coconut fibre brush. Clean brush in water frequently. Do not brush any residual dry material into any unfilled joints. Additionally make sure, that any water containing residual material is not left standing or allowed to dry out on the surface. Chamfers must be brushed free, as performance cannot be guaranteed on these. Cured residue mortar can only be removed mechanically.

All of the times and timing information in this Technical Data Sheet are based on a temperature of 20°C/68°F and 65% relative humidity. Higher temperatures will reduce these times and lower temperatures will increase them.

Cordon off the freshly applied areas for a period of at least 12 hours. Then the areas can be walked over. Protect the freshly laid area from rain or water flow for a period of at least 12 hours (do not place the covers directly onto the paving: ensure that the air can circulate freely over the surface). The area can be fully released to vehicular traffic after 7 days, when fully hardened. In general, a strength test should be carried out before final clearance of the area.

A very thin film of the resin binder will remain on rough surfaces or any surfaces that are not cleaned thoroughly. This film will disappear after a period of exposure to traffic and the elements.

Consumption: The consumptions stated in the table below refer to areas of natural stone setts with cropped edges and has been compiled from our own extensive experience. There is no allowance for any loss or wastage, etc. **The joint depth in all of these examples is 30 mm.**

	Dimensions in mm		approx. in kg/m ² , for joint widths		
	Width	Length	3 mm	5 mm	10 mm
Cubes	40	40	6,3	10,0	18,0
	50	50	5,1	8,2	15,0
	40	60	5,3	8,5	15,5
Small setts	100	120	2,4	3,9	7,6
	100	100	2,6	4,3	8,2
	80	100	2,9	4,8	9,1
	60	80	3,8	6,1	11,4
Larger setts	160	180	1,6	2,6	5,0
	140	180	1,7	2,8	5,4
	120	160	1,9	3,2	6,1

Key technical values: All **GftK** pavement jointing mortars are designed to have the ideal correlation between their compressive, flexural and modulus of elasticity values, according to their recommended areas of use.

Wet density: 1,5 g/cm³
 Set mortar density: 1,25 g/cm³
 Flexural strength: approx. 5,5 N/mm²
 Compressive strength: approx. 15,0 N/mm²
 E-Modulus: 2300 N/mm²
 Water permeability: 1,67 · 10⁻³ m/s (10 l/m²/min at 10% joints)
 Storage: 1 year, if stored unopened in sealed and undamaged packaging, kept dry and frost-free. **Do not store at temperatures over 20°C/68°F.**
 Packaging: 25 kg and 10 kg (plastic pails)

Safety information:

When using **vdw 805** avoid contact with skin and wear protective clothing including safety glasses, gloves, etc. 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 product information sheet replaces all previous versions.