vdw 800

Epoxy Paving Joint Mortar

High performance for light to medium traffic loads



For natural stone, reconstituted stone and concrete block paved surfaces on patios, paths, driveways, commercial areas and other hard landscaped surfaces with joints wider than 5 mm.

- Fast, durable and cost effective
- Easily flow applied
- Self-compacting
- Low temperature application (min. +7°C/ +44,6°F)
- Can be applied on wet/ damp surfaces
- Clean, stain free surfaces
- Optimum strength correlation
- Water permeable
- Mechanical sweeper resistant
- Abrasion resistant
- Frost and de-icing salt resistant
- No weeds or boring insects
- Environmentally friendly
- natural (light sand)



stone grey



basalt (dark grey)



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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 800 is a paving joint mortar and cannot be used to compensate for any settlement of the substructure, or for the sealing and waterproofing of any surfaces. Movement joints must be installed as necessary to comply with the required structural design. The vdw 800 mortar can be applied on damp/wet paving.

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 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. In areas of heavy or frequent vehicular traffic the total joint depth of the bedded paving units. Joint width: Continuously min. 5 mm. For joint widths greater than 15 mm, the joint depth must be at least twice the joint width.

Application conditions: The ambient, substrate and material temperatures should be min. 7°C/44,6°F to max. 25°C/77°F.

Tools: A compulsory forced action mixer or a drill with twin spherical mixing paddles for smaller projects. Water supply, a hose with spray nozzle, a squeegee and a coconut fibre brush.

Test area: On some reconstituted or sensitive natural stone paving, the **vdw 800 binder** contact can make the stone appear darker or to have a 'wet look'. These effects are not defects in the product or shortcomings in the execution of the work. **In general the product should be tested first!**

Preparation/Pre-wetting: Clean the surface of all dirt, cement residues, organic materials or any other contaminants, including cleaning out all of the joints to the required depth.

Fully saturate the paved surface before starting the application and ensure this condition is maintained throughout the work. The amount of wetting required is related directly to the type and porosity of paving and the site conditions i.e. wind, direct sunlight and temperature etc.

Mixing: Mix the vdw 800 resin coated aggregate (component A) materials together, and then add the vdw 800 liquid hardener (component B) from the bottle in the pail. Then add a quantity of clean water equal to double the quantity of the liquid hardener (use the empty component B bottle as a measure), and mix to achieve a fully homogeneous consistency. Mixing time: min. 5 minutes.

Filling the joints: Spread the vdw 800 mortar across the pre-wetted paving surface using the rubber squeegee and work thoroughly into the joints where it self-compacts. We recommend working from the highest to the lowest points.

Brushing off: After approx. 15-20 minutes the vdw 800 mortar should have achieved a semi-dry consistency. At this stage, remove any excess mortar completely using a damp coconut fibre brush. Frequently clean this brush in water and then rinse the surface by spraying lightly with water from a hose at a distance of about 25 cm. Avoid washing material out of the joints. Be careful to clean the paved surface towards areas not yet jointed and do not allow any water containing residues to pond, stand, dry out or run-off over completed areas. Do not brush any residual, cured mortar into any unfilled joints.

Cordon off the freshly **vdw 800** jointed areas for a period of at least 12 hours after which the areas can be walked over. Protect the freshly laid area from rain or waterflow 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 opened for use by vehicular traffic after 7 days. Tools can be cleaned with water whilst the mortar is fresh. Chamfered edges must be brushed free of the **vdw 800** mortar. Cured 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 $^{\circ}\text{C}$ / 68 $^{\circ}\text{F}$ and 65 % relative humidity. Higher temperatures will reduce and lower temperatures will increase them.

A very thin film of the **vdw 800** resin binder can remain on any surfaces that are not cleaned thoroughly. This film will disappear after a period of exposure to traffic and weathering. To reduce any such effects, please use **vdw 950 Stone Protect Plus 3 in 1** as a pre-treatment of the paved surface.

Consumption: The table below refers to areas of natural stone setts with cropped edges and has been compiled from our own experience. The natural shape of setts and different designs or techniques, may result in variations. There is no allowance for any loss or wastage, etc. If in doubt, always determine actual consumption 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. in kg/m², for joint widths		
	Width	Length	5 mm	10 mm	15 mm
Cubes	40	40	3,6	6,4	8,7
	50	50	2,9	5,3	7,4
	40	60	3,0	5,5	7,6
Small setts	100	120	1,4	2,7	3,9
	100	100	1,5	2,9	4,2
	80	100	1,7	3,2	4,6
	60	80	2,2	4,1	5,7
Larger setts	160	180	0,9	1,8	2,6
	140	180	1,0	1,9	2,8
	120	160	1,1	2,2	3,1
Flags/Slabs	600	400	0,3	0,7	1,0
	400	400	0,4	0,8	1,2
	300	300	0,5	1,0	1,5
	200	200	0,8	1,5	2,26

Key technical values: GftK paving joint mortars have the ideal correlation between their compressive and flexural strengths, plus their modulus of elasticity values, according to their areas of use. **vdw 800:**

Flexural strength: approx. 5.0 N/mm² Compressive strength: approx. 15.0 N/mm²

E-Modulus: 3400 N/mm²

Permeability: 5,08 · 10⁻³ m/s (60 l/min/m² at 20 % joints) Storage: 1 year in original, unopened, sealed and undamaged packaging, kept dry and

frost-free.

Packaging: 10 kg or 25 kg (plastic pail)

Safety information: When using **vdw 800** 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 material requires disposal as special waste. Mixed, fully cured material is inert and does not require special disposal.

The information on this Technical Data Sheet (TDS) 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 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 TDS, or from any verbal advice unless this advice is expressly confirmed by us in writing. This TDS replaces all previous versions.