

plus
vdw 840

Paving Joint Mortar/Grout 1-component

For pedestrian areas



For the jointing of natural stone setts and concrete block paving, including paving slabs and brick paving etc. Suitable for pedestrian traffic only i.e. for garden patios, paths, domestic-entrance areas and terraces.

- Supplied ready-to-use
- Wet slurry application
- Can be applied in light rain
- Good strength correlation
- Suitable for narrow joints from 3 mm to 20 mm
- Paving surfaces remain almost free from residual binder, any that does remain will disappear with weathering

- natural



- sand beige



- stone grey



- basalt



Quality for professionals

GftK

Product and Application Information

Substrate/Bedding: The supporting structure and substrate should be permeable and designed in accordance with **BS 7533**, to fully support and accommodate the anticipated traffic load. **vdw 840 plus** is not designed to absorb movement and settlement in the bedding. Dependent on conditions, the laying of paving on a stable compacted sand bed is acceptable. However it is better **to lay paving in a permeable concrete or mortar bed**. Never use on impermeable concrete bedding, because **vdw 840 plus** is designed to be permeable in accordance with **SUDS-regulations**. Expansion joints have to be designed in accordance with the principles of construction. Joints from the substrate and joints adjacent to buildings have to be transferred. Expansion joints need to be flexible.

Joint width: continuously min. 3 mm, max. 20 mm.
Joint depth: min. 30 mm.

For joint widths greater than 15 mm, the joint depth must be at least twice the joint width.

For application, the paving, grout and ambient temperatures should be min. 5°C/41°F and max. 30°C/86°F.

Tools: A knife, a hard rubber squeegee, a coconut fibre brush, a water hose with spray nozzle.

Test area: Practical experience has shown that on some reconstituted stone, the film can make the stone appear darker, or to have a 'wet look'. These effects result from the contact between **vdw 840 plus** and the pavement surface. Some types of stone are sensitive to staining or can discolour after jointing. This is not a defect or shortcoming in the execution of the works or the product. In general the product should be tested first.

Preparation: Clean the surface of the paving area to remove all dirt, cement, sand or other materials. Clean joints to required depth. Fully saturate the pavement surface. **Always use clean and fresh tap water!**

Slurry Application: Working time is approx. 45 minutes at 20°C/68°F. This process is suitable for joint widths from 3–20 mm. First saturate the whole surface thoroughly and keep it wet during the application. Cut open the plastic bag. Then pour the mortar onto the wetted surface **in small piles** (approx. the amount of mortar one would need for 4–5 m² per pile). **Slurry into the joints using a soft water jet and a hard rubber squeegee.** Allow this water to drain and then remove/clean any surplus mortar from the surface carefully using more water and a dampened coconut-fibre-brush. Be careful not to brush out the freshly applied mortar in the joints. Chamfers must be brushed free carefully, as performance cannot be guaranteed on these. Some darkening may occur in sensitive or highly absorbent slabs due to moisture from the bedding.

Curing: The following relates to a temperature of 20°C/68°F and 65% relative humidity. Higher temperatures will shorten the curing period, lower temperatures will increase it.

Prevent any access to the freshly grouted areas for at least 24 h. Protect the freshly grouted areas from heavy rain and/or water flows for at least 24 h. Final opening of the areas to full use should be after 7 days curing. A physical mortar strength test can always be carried out before the surfaces go into service. Prolonged dampness during curing may cause some delay in hardening or impairment in the ultimate strength.

If the vacuum sealed plastic bag inside is damaged, the material will react prematurely and 'lumps' will form in the material. In this case the product cannot be used anymore. Opened bundles must be completely processed within the specified processing time.

Consumption: The consumptions stated in the following table refer to areas of natural stone setts with cropped or riven edges and have been compiled from our experience. The natural shape of setts and different paving designs or laying

techniques, may result in variations to these values. There is no allowance included for any loss or wastage etc. The joint depth in all of these examples is 30 mm.

Stone Size in mm		Approx. kg/m ² , for joint width			
Width	Length	3 mm	5 mm	10 mm	15 mm
100	120	2,7	4,5	8,6	12,3
100	100	3,0	4,9	9,3	13,3
80	100	3,3	5,4	10,3	14,7
180	180	1,7	2,8	5,4	7,8
140	160	2,0	3,3	6,4	9,3
120	160	2,2	3,6	6,9	10,0
600	400	0,6	1,1	2,1	3,1
400	400	0,8	1,3	2,5	3,7
300	300	1,0	1,7	3,3	4,9

Key technical values:

vdw 840 plus stands out in comparison with other air-drying, 1-component, joint compounds, due to its higher strength and better strength correlation, plus its unique moisture tolerance that allows the option of "wet" slurry application, with greater retention of strength and other performance characteristics. **vdw 840 plus** is designed to have the ideal correlation between its compressive, flexural and modulus of elasticity values, for its recommended areas of use.

Density:	1,7 g/cm ³
Flexural Strength:	ca. 8,0 N/mm ²
Compressive Strength:	ca. 16,0 N/mm ²
Permeability (material):	At 20% joint proportion, approx. 12 l/m ² /min.
Storage life:	9 months, if stored dry and frost-free in original and unopened packaging.
Packaging:	12,5 kg and 25 kg pails (vdw 840 plus is vacuum sealed in a plastic bag inside)

Important Notes:

As with all polymeric sand jointing mortars, **vdw 840 plus** can be permanently damaged by frequent waterlogging, i.e. if laid on an impermeable supporting structure or bedding mortar. Plus **vdw 840 plus** grouted joints should not be cleaned with high-pressure water jetting equipment.

Health and Safety information:

When using **vdw 840 plus**, avoid contact with skin and wear safety goggles and protective gloves. Keep away from children. Avoid animal contact (including aquatic life) during the application and curing periods. Mixed, cured material is inert and does not require special disposal.

Contact:

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Rheinbach-Flerzheim, January 2013

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