

plus
vdw 840

Paving Joint Mortar 1-component

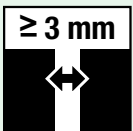
For the jointing of natural stone setts and concrete block paving, including paving slabs and brick paving etc. Suitable for pedestrian traffic only i.e. for garden patios, paths, domestic-entrance areas and terraces.



for pedestrian areas



water permeable



joint width ≥ 3 mm



no binder residues on the surface



suitable for impregnated stones and ceramic tiles

- natural



- silver grey



- stone grey



- basalt



GftK

Quality for professionals

Additional features



- wet slurry application, giving perfect results
- self-compacting, any further manual compacting is not required
- even applicable in times of light rain
- 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
- supplied ready-to-use
- also designed for ceramic tiles
- good strength correlation

Technical Data

Product description

1-component, air-drying and ready-to-use joint compound with graded aggregates.

| | |
|--------------|---|
| Binder: | 1-component, highly modified and air-drying liquid polymer |
| Joint width: | continuously min. 3 mm, max. 20 mm. |
| Joint depth: | min. required 30 mm. For joint widths greater than 15 mm, the joint depth must be at least twice the joint width. |
| Packaging: | 12,5 kg and 25 kg pails (vdw 840 plus is vacuum sealed in a plastic bag inside) |

Material data

| | |
|-----------------------|---|
| Flexural strength: | ca. 8,0 N/mm ² |
| Compressive strength: | ca. 16,0 N/mm ² |
| Water permeability: | 1,7 x 10 ⁻⁵ m/s (approx. 3 l/m ² /h at 5% joints) |
| Storage life: | 18 months if stored in a dry place away from frost |

Application data

| | |
|------------------------|---------------------------------------|
| Pot life: | approx. 45 minutes at 20°C / 68 °F |
| Ambient temperature: | min. 5 °C / 41 °F, max. 25 °C / 77 °F |
| Substrate temperature: | min. 5 °C / 41 °F, max. 25 °C / 77 °F |

Ecology

| | |
|----------------------------|-------|
| German water hazard class: | WGK 1 |
|----------------------------|-------|

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. **All of the examples in the table refer to a joint depth of 10 mm and must be multiplied by the actual depth of the joint.**

Please see our consumption calculator at:

gftk-international.com/jointing-mortar-usage-calculator



| | Dimensions in mm | | approx. consumption in kg/m ² , for joint widths of: | | | |
|----------------------|------------------|--------|---|------|-------|-------|
| | Width | Length | 3 mm | 5 mm | 10 mm | 15 mm |
| Mosaic paving | 40 | 40 | 2,4 | 3,8 | 6,8 | 9,3 |
| | 50 | 50 | 1,9 | 3,1 | 5,7 | 7,9 |
| | 40 | 60 | 2,0 | 3,2 | 5,8 | 8,1 |
| Small setts | 100 | 120 | 0,9 | 1,5 | 2,9 | 4,1 |
| | 100 | 100 | 1,0 | 1,6 | 3,1 | 4,4 |
| | 80 | 100 | 1,1 | 1,8 | 3,4 | 4,9 |
| | 60 | 80 | 1,4 | 2,3 | 4,3 | 6,1 |
| Large setts | 180 | 180 | 0,6 | 0,9 | 1,8 | 2,6 |
| | 140 | 160 | 0,7 | 1,1 | 2,1 | 3,1 |
| | 120 | 160 | 0,7 | 1,2 | 2,3 | 3,3 |
| | 100 | 200 | 0,7 | 1,2 | 2,4 | 3,4 |
| Stone setts | 600 | 400 | 0,2 | 0,4 | 0,7 | 1,0 |
| | 400 | 400 | 0,3 | 0,4 | 0,8 | 1,2 |
| | 300 | 300 | 0,3 | 0,6 | 1,1 | 1,6 |

Application



clean the surface in order to remove all residues



cut open the vacuum plastic bag



fully saturate the pavement surface



pour the mortar onto the wetted surface in small piles



slurry into the joints using a soft water jet and a hard rubber squeegee



remove / clean any surplus mortar from the surface carefully using more water ...



... and a dampened coconut-fibre-brush



please follow aftertreatment

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.

Requirements

A stable, load-bearing, permanently water permeable substrate, joint depth ≥ 30 mm, joint width continuously ≥ 3 mm, **max. 20 mm**, outside and surface temperature min. $5^{\circ}\text{C} / 41^{\circ}\text{F}$ to max. $25^{\circ}\text{C} / 77^{\circ}\text{F}$.

Test area

Practical experience has shown that on some reconstituted stone, the binder 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.

When appropriate, we recommend the use of **vdw 950 StoneProtect Plus 3 in 1**.

Preparation

Clean the surface of the paving area to remove all dirt, cement, sand or other materials. Clean joints to the required depth.

Pre-Wetting

Fully saturate the pavement surface. Always use clean and fresh tap water when wetting and cleaning!

Filling the joints

Cut open the plastic vacuum 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. Repeat these steps until the entire mortar has been processed. On some reconstituted stone, a binder film may remain behind and make the stone appear darker, or to have a ‘wet look’. Remove any final residual mortar with a damp coconut fibre brush and smoothen the joint surface while doing so. 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.

Important information

Application

vdw 840 plus is not approved for use in indoor and/or swimming pool areas.

Substrate

vdw 840 plus Paving Mortar / Grout 1-component is a jointing material and cannot absorb settlement from the substrate. 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 bed. Never use on impermeable concrete bedding, because **vdw 840 plus** is designed to be permeable.

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, otherwise increased cracking may occur.

Joints

- **Minimum joint depth:** the minimum joint depth for **vdw 840 plus** is 30 mm.
- **Minimum joint width:** the minimum joint width for **vdw 840 plus** is minimum 3 mm, maximum 20 mm.
- For joint widths greater than 15 mm, the joint depth must be at least twice the joint width.
- Chamfered edges must be brushed free carefully, as performance cannot be guaranteed on these.
- 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.

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.

Before using vdw 840 plus please pay attention to our detailed booklet. Every bucket contains such a booklet which is attached to the lower side of the lid containing technical details and further information about the product.

No direct legal liability can be assumed based on the data in this product information sheet or from any verbal advice. Unless this verbal advice is expressly confirmed by us in writing. Our General Conditions of Sale and Supply apply. Direct legal liability cannot be accepted, on the basis of either information in this product information only or of verbal advice unless its content is explicitly confirmed by us in writing. This product information sheet replaces all previous versions.

Rheinbach-Flerzheim, May 2021



vdw

Jointing Mortars

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Joint Mortar

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