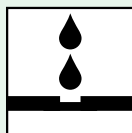


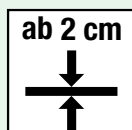
# vdw 860

## mortar for slabs and ceramic tiles 2-components

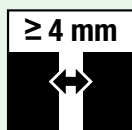
For the pointing of surfaces with slabs and narrow joints (min.  $\geq 4$  mm width)



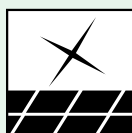
water impermeable



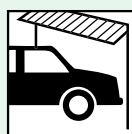
especially suitable for thin flags, slabs, tiles



joint width:  $\geq 4 - 8$  mm



clean surface



for light traffic loads

- dark grey



professional quality

## Additional features



- water impermeable
- very high elasticity for bonded joints
- jetwasher proof and highly resistant to chemicals
- very economical
- creamy mortar consistency
- ▶ especially suitable for balconies, roof terraces and sealed surfaces
- ▶ up to 30% less expansion joints needed throughout the surface in comparison to cement based grout
- ▶ easy to clean and specially suitable for pool surroundings
- ▶ up to 25% more joints can be pointed in comparison to other cementitious mortars
- ▶ also very suitable for vertical joints

*udw 860 combines the best of both worlds!  
cementitious and epoxy based products*

## Technical data

### Product description

Reaction-resin based, water impermeable joint mortar, with graded aggregates.

Binder:	2-component, solvent-free, highly modified, water emulsifiable epoxy resin
Joint width:	continuously min. 4 mm, max. 8 mm
Joint depth:	we recommend the full joint depth in trafficked areas, in bonded bedding min. 20 mm in non-bonded bedding min. 30 mm.
Packaging:	PP bucket (4 kg)

### Material data

Flexural strength:	approx. 6,7 N/mm <sup>2</sup>
Compressive strength:	approx. 15,0 N/mm <sup>2</sup>
Water permeability:	water impermeable
Storage life:	1 year stored in a dry place away from frost

### Application data

Mixing ratio of components:	A : B = 100 : 3,7
Pot life:	approx. 40 minutes at 20°C after mixing
Ambient temperature:	mind. 10°C, max. 25°C
Substrate temperature:	mind. 10°C, max. 25°C

## Consumption

The consumptions stated in the following table refer to setts with cropped edges all around and have been compiled from our long experience. The natural shape of setts and different paving designs may result in variations to these values. If in doubt, determine the actual consumption on a test area. The consumptions stated below apply to a joint depth of **10 mm** and must be multiplied by the actual depth.

Please see our consumption calculator at:  
[www.gftk-info.de/english/jointing-mortar-usage-calculator](http://www.gftk-info.de/english/jointing-mortar-usage-calculator)



	Dimensions in mm		Approx. consumption in kg/m <sup>2</sup> , for joint widths of:		
	Width	Length	4 mm	6 mm	8 mm
<b>Slab sizes</b>	1200	400	0,20	0,30	0,40
	1000	1000	0,15	0,20	0,25
	800	1200	0,15	0,20	0,25
	450	900	0,20	0,30	0,40
	800	800	0,15	0,25	0,30
	600	600	0,20	0,30	0,40
	600	400	0,25	0,40	0,50



# Application



Prepare wash bucket, smoothing trowel, and vdw sponge board



Clean the surface thoroughly and remove all residues



Take the viscose sponge with velcro from the bucket and prepare



Add the binder component and mix thoroughly until homogeneous



Wet the area using the vdw sponge board



Work the mortar into the joints using the smoothing trowel



Level joints and wash surface until residue-free



Job done! Please observe directions for curing!

## Requirements:

A stable, load-bearing, permanently water impermeable substrate, joint depth 30 mm (bonded construction: 20 mm), joint width continuously 4 mm – 8 mm, outside and surface temperature min. 10°C to max. 25 °C. The surface must have an inclination of at least 1.5% – 2% in order to prevent ponding.

## Test area:

In order to evaluate the colour match of the mortar and the flags, slabs or tiles we strongly recommend to create a test area first.

## Preparation:

Clean the surface thoroughly of all dirt, cement residues, vegetation, organic material or other contaminants. Keep wash box, vdw sponge board and smoothing trowel (also see vdw accessories) ready and fill the wash box with fresh and cold tap water. **Do not prefill the joints!**

## Wetting:

Fully saturate the surface of the paving with the sponge. Take the viscose sponge with velcro from the bucket first, fix it to the vdw sponge board and prewet the surface with the complete sponge board. To do so please dip the vdw sponge board including sponge into the water in the wash box and squeeze it over the roller-top of the wash box. **Do not use a hose for prewetting!!!**

## Mixing the joint mortar:

Pre-mix the aggregate, then add the binder and mix thoroughly with a suitable tool (drill and spherical paddle mixers) until homogeneous. **No water should be added to the mix.**

## Filling the joints:

Apply immediately after mixing by working into the joints with the smoothing trowel (by using a flat angle between the smoothing trowel and surface the mortar can be stuffed into the open joint. Using a steep angle between the smoothing trowel and surface mortar residue can be removed). Continuously fill up the joints with the complete mixed content of the bucket. Avoid any cavities within the mortar when jointing.

## Brushing off/Cleaning:

Immediately after incorporation of the mixed amount of mortar, this part of the surface can be washed off. The washing process should be done in two steps. Firstly the surface will be wiped with the damp sponge board in a circular motion. During this process the surface of the joints can be smoothed and modeled and possible irregularities can be compensated. In between that, immerse the sponge board into the wash box and press it gently over the rollers. In case of very strong mortar adhesion the sponge can be wrung out by hand in the wash box or cleaned with a water spray jet.

Secondly the residues of the first wiping are removed from the surface. Please use the damp sponge board and clean the surface diagonally to the joints and absorb the last residues.

Dip the sponge board into the wash box and squeeze over the rollers after each wipe. Important: each bucket of **vdw 860 mortar for slabs and ceramic tiles 2-components** contains a new sponge pad. Please make sure to use this new sponge pad with each new bucket.

**Only by doing so an absolutely clean surface can be guaranteed.**

#### **Curing:**

The following points apply to a temperature of 20°C and 65% relative humidity (high temperatures shorten and low temperatures lengthen the curing period). Cordon off the freshly jointed areas for a period of at least 24 hours. 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 principle, a strength test should be carried out before putting into service. In order to avoid blooming of the joints it is advised to ensure rain protection for the next 12 hours.

## **Important information**

#### **Basics**

A water-impermeable jointing does not replace a functional structural waterproofing! Likewise grouts cannot increase the stability of the surfaces by their use.

#### **Substrate**

**vdw 860 mortar for slabs and ceramic tiles 2-components** is a jointing material and cannot absorb any settlement from the substrate. The substrate, supporting structure and surfacing must be designed to accommodate the anticipated traffic load.

#### **Joints**

The minimum joint depth for **vdw 860 mortar for slabs and ceramic tiles 2-components** in areas with vehicle traffic is the full joint depth. In case of a bonded bedding, minimum joint depth is 20 mm, in case of an unbonded bedding, minimum joint depth is 30 mm. The minimum joint width for **vdw 860 mortar for slabs and ceramic tiles 2-components** is 4 mm, maximum 8 mm. Only with joint widths of greater than or equal to 4 mm can any existing dimensional tolerances of the ceramic terrace elements be compensated. Furthermore, thermally induced stresses of the covering surfaces can only be absorbed with joints wider than 4 mm. Ceramic terrace elements from some manufacturers have a conical edge formation (not rectified). When using these elements, the minimum joint width at the narrowest point / below applies.

Expansion joints must be positioned according to the Safety Principles and must be installed as necessary to comply with the required structural design and any anticipated levels of movement. Use a suitable flexible joint compound. We recommend vdw 885 Joint Flex Compact.

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. No direct legal liability can be assumed based on the data in this Product Information Sheet, or from any verbal advice unless this advice is expressly confirmed by us in writing. This Product Information Sheet replaces all previous versions.

Rheinbach-Florzheim, April 2019

*professional quality*



#### vbw sponge board

Velcro board for attaching sponge pads  
(Sponge support, as supplied in the mortar bucket, is not included).

Dimensions	Product No.
270 mm x 130 mm	799 101 996



#### vbw smoothing trowel

Especially designed epoxy smoothing trowel for easy incorporation of **vbw 860 mortar for slabs and ceramic tiles 2-components**.

Dimensions	Product No.
250 mm x 100 mm	799 102 996



#### vbw 860 velcro sponge

vbw 860 velcro sponge for the final cleaning of **vbw 860 mortar for slabs and ceramic tiles 2-components**

Dimensions	Product No.
280 mm x 140 mm x 30 mm	799 100 996



#### vbw 860 toolkit

Consisting of a vbw sponge board and a smoothing trowel.

Product No.
799 104 996



#### Wash box

Wash box with rollers on top for cleaning of the sponges.

Dimensions	Product No.
22 litres	799 103 996

**Contact:**