vdw 495 – Universal Adhesive Slurry

Adhesive mortar for improving the bond of paving and slab surfaces, indoors and outdoors.

for light to heavy traffic loads

ready to use

early pedestrian access and loading

- cement grey

brushable & trowelable



Further properties

• variable consistency	➡ can be brushed on or applied with a trowel
• can be portioned	➡ mix only the quantity actually needed
• high bond strength	➡ optimum bond between bedding and paving
• moisture-inhibiting	➡ prevents rising damp in natural stone
• rapid hardening	➡ early loading, ready for jointing 24 h after application
• universally usable	➡ adhesive mortar for setts, slabs and garden wall blocks

GftK

Quality for Professionals

Product benefits of adhesive slurries:

Discover the advantages of
vdw 495 Universal Adhesive Slurry!

Example of laying setts with adhesive slurry:



Example of laying slabs with adhesive slurry:*



*On ceramic terrace elements the bonding agent must always be applied with a notched trowel.

Example of laying wall blocks with adhesive slurry:



Technical Data

Product description

vdw 495 Universal Adhesive Slurry is a high-quality, highly polymer-modified, hydraulically setting bonding agent for laying setts and non-translucent slab coverings such as stoneware, split tiles and natural stone on a suitable free-draining bedding mortar.

Binder:	Standard cements with additives, low in chromate to TRGS 613
Packaging:	25 kg bag

Material data

Adhesive tensile strength:	> 2.0 N/mm²
Storage life:	12 months, stored dry and frost-free

Application data

Mixing ratio:	We recommend mixing part quantities, 5 or 7 l of water per 25 kg bag, depending on the application method
Pot life:	approx. 60 minutes at 20 °C after mixing
Maturing time:	approx. 2 minutes
Underfloor heating:	suitable
Outside temperature:	min. 5 °C, max. 25 °C
Substrate temperature:	min. 5 °C, max. 25 °C

Ecology

Water hazard class:	Class 1 – slightly hazardous to water
Disposal:	Disposal code 170101, 101314

With these notes we wish to advise to the best of our knowledge on the basis of our tests and experience. Because of the many possible applications and the storage and application conditions of our products, which are beyond our control, we cannot however accept any warranty for the work result in individual cases. Carry out your own tests. Our technical advisory service is always available at Technik@gftk-info.de. Subject to change.

Please always refer to our detailed brochure “Application Technology Notes”. You can request it from your dealer or directly from us!

No direct legal liability can be derived either from the notes in this product information or from verbal advice, unless the content of the advice is expressly confirmed by us in writing. With the publication of this product information all previous versions become invalid.

Rheinbach-Flerzheim, May 2023

Application

You will find further information in this application video



Prepare sub-base, base courses and bedding. Then pour in 5 or 7 l of water



add vdw 495 and stir to a homogeneous mix



Dipping ...



... brushing on ...



or apply with a notched trowel.



laying “wet on wet”



follow the curing notes!

Product properties:
vdw 495 Universal Adhesive Slurry is suitable for both paving and slab coverings of every kind. Its adjustable consistency allows **vdw 495 Universal Adhesive Slurry** to be used by trowel, brush or dipping. The material can be portioned to requirements without difficulty and mixed with different amounts of water without any loss of quality. Besides an optimum bond between the paving material and the bedding, it protects sensitive natural stone (e.g. granite or sandstone) against rising damp. **vdw 495 Universal Adhesive Slurry** can be loaded early, so finished areas can be jointed as soon as 24 h after laying, in the system with **vdw 480 Bedding Compound** or **vdw 490 Universal Trass Drain Mortar**.

Requirements:
The sub-base and base course must be sufficiently level, load-bearing and free-draining and must match the loads to be expected! They must be dimensioned so that no damaging deformation occurs. Ambient and substrate temperature > 5 °C, max. 25 °C.

Mixing the Adhesive Slurry:
To produce a brushable mortar for brushing on or dipping, mix **vdw 495 Universal Adhesive Slurry** with max. 7 litres of clean, cold water (for 25 kg of dry mortar) for approx. 2 minutes with a suitable stirrer until homogeneous. Maturing time approx. 2 minutes, then stir up again briefly. To produce a stiff mortar for application with a notched trowel, mix **vdw 495 Universal Adhesive Slurry** with max. 5 litres of clean, cold water (for 25 kg of dry mortar) for the mixing time stated above. Stiffened mortar must not be made workable again either with water or with fresh mortar. We recommend mixing part quantities that can be used up within the stated pot life.

Applying the mortar:
Apply the mixed Universal Adhesive Slurry with a brush, by dipping or with a notched trowel to the clean underside of the paving unit, over the full area and generously. On slabs we recommend combing **vdw 495 Universal Adhesive Slurry** over the whole underside with the notched trowel. This ensures a sufficient bond. The unit coated with Universal Adhesive Slurry should be laid into the still fresh bedding mortar (“wet on wet”). **vdw 495 Universal Adhesive Slurry** must be protected against rapid drying out. The drainage capacity of the bedding in the joint area must be maintained.

Curing:
The following points refer to a temperature of 20 °C and 65 % relative humidity (high temperatures shorten, low temperatures lengthen the setting time). Close off the freshly laid areas for a period of at least 24 hours. After 24 hours the areas can be jointed. Protect the mortar against rapid drying out and rain for 12 hours. Fully loadable after 7 days.

Application notes

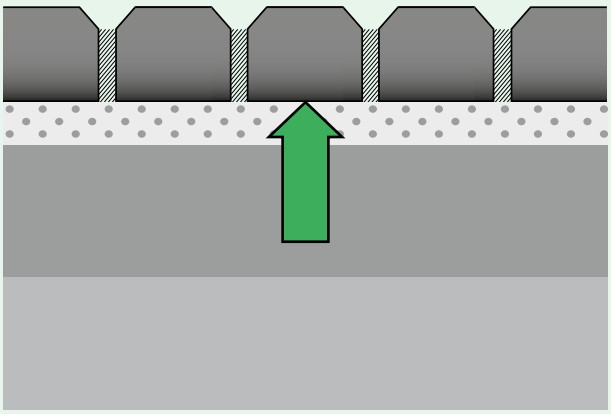
Consumption
approx. 1.6 kg/m²/mm

Packaging

Colour	Pack size (bag)	Art. no.
cement grey	25 kg	495001.825

Bonding agent

In bound and mixed construction methods – that is, when setts and slabs are laid in a bedding mortar – a bonding agent must always be used.



Characteristics:
- product for improving the bond at the interface between components (sett/slab and the bedding mortar)
- as a rule hydraulically setting
- applied in a suitable consistency to the underside of the unit to be laid
- min. bond strength ≥ 0.4 to ≥ 1.0 N/mm², depending on use and code of practice
- other common terms – e.g. adhesive slurry or bonding slurry.

Product requirements for adhesive slurry

		Bond strength in N/mm² or MPa		
Use category / load class		ZTV Wegebau	DIN 18318	FGSV M FP geb
N1	walkable	≥ 0.4	≥ 0.4	≥ 1.5 mean value ≥ 1.2 single value
N2	trafficable, vehicles up to 3.5 t	≥ 0.8	≥ 0.8	
N3	trafficable, vehicles over 3.5 t	≥ 0.8	≥ 1.0	

vdw Mortar Systems

for concrete, natural stone, ceramic and clinker paving



How to reach us:

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We are glad to support you with your project!

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