vdw 470 – Landscaping Drain Mortar

Bedding mortar for natural stone and concrete block paving and slabs.

for light to medium traffic loads

permeable to water

ready to use

WET & DRY

wet and dry application

early pedestrian access and loading

- cement grey



wet & dry application

GftK

Quality for Professionals

Further properties









- pleasant consistency and no tearing when spreading ➡ easier working, hardly any build-up on the screeding tool and therefore rapid progress on site
- high strengths ➡ suitable for traffic loads up to N3 to ZTV-Wegebau, i.e. the category trafficable, vehicles over 3.5 t to DIN 18318
- highly water-permeable ➡ meets the requirements of DIN 18318 and of ZTV-Wegebau
- rapid hardening ➡ early access on foot and jointing
- optimised formula ➡ can be mixed or applied dry, unmixed
- capillary-passive effect thanks to high-grade polymer modification ➡ prevents rising capillary moisture with fine chipping gradings

Technical Data

Product description
Trass-cement-bound factory dry mortar for laying paving setts and slabs outdoors. Its special grading curve produces a highly water-permeable mortar bed with virtually no capillary suction. This reliably prevents frost damage.

Binder:	Standard cements with additives, low in chromate to TRGS 613
Bedding thickness:	4 –10 cm
Packaging:	25 kg bag

Material data*

Compressive strength:	> 30.0 N/mm² after 28 days
Adhesive tensile strength:	> 0.8 N/mm²
Water permeability:	> 1000 L/m²/h
Storage life:	12 months, stored dry and frost-free

Application data

Mixing ratio:	1.8 – 2.0 litres of water per 25 kg bag
Pot life:	approx. 90 minutes at 20 °C after mixing
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

*) determined by standard-compliant testing

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. Our general terms and conditions of sale and delivery apply.

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, April 2023

Application

You will find further information in this application video



prepare the sub-base and base courses



pour in max. 2 l of water



add vdw 470



apply the mortar and screed it off over guide rails



set the paving with a hammer



for slabs apply adhesive slurry to the underside



follow the curing notes!

Requirements:
The sub-base and base course must be sufficiently level, load-bearing and free-draining. They must be dimensioned so that no harmful deformation occurs. Ensure drainage by means of a free-draining substrate or a sufficient drainage fall, if necessary combined with a drainage mat. Ambient and substrate temperature > 5 °C, max. 25 °C.

Mixing the trass drain mortar:
Mix **vdw 470 Landscaping Drain Mortar** with 8 % (2.0 litres of water per 25 kg of dry mortar) of clean, cold water to a homogeneous, earth-moist consistency. No maturing time required. Stiffened mortar must not be made workable again, either with water or with fresh mortar.

Applying the mortar:
Apply the mixed mortar in the usual way. Lay out only as much material as can be worked within the pot life. In the compacted state the layer thickness must be at least 4 cm and at most 10 cm, depending on the area of use and the construction method. Set the paving firmly into **vdw 470 Landscaping Drain Mortar** with a hammer. To improve adhesion we recommend dipping the paving blocks into **vdw 495 Universal Adhesive Slurry** before jointing. After 24 hours the areas can be jointed with **vdw Paving Jointing Mortar**. When laying slabs, screed **vdw 470 Landscaping Drain Mortar** level, observing the respective bedding thickness. Before laying the slabs, apply **vdw 495 Universal Adhesive Slurry** to the underside of the slab. The joint area must be free of **vdw 495 Universal Adhesive Slurry**.

Alternative application (for pedestrian areas only)
The mortar is poured straight from the bag, applied at the appropriate layer thickness and screeded off level. Then activate the laid-out area with a fine water spray. To improve adhesion we recommend dipping the setts in **vdw 495 Universal Adhesive Slurry** before laying. Before laying slabs, apply **vdw 495 Universal Adhesive Slurry** to the underside of the slab. The joint area must be free of **vdw 495 Universal Adhesive Slurry**. Once the paved area is finished, wet it thoroughly with water. The water then passes through the joints into the bedding layer and activates the hardening.

Curing:
The following points refer to a temperature of 20 °C and 65 % relative humidity (high temperatures shorten, low temperatures lengthen the curing time). Cordon off the freshly laid areas for a period of at least 48 hours. After 24 hours the areas can be jointed. Protect the mortar from rapid drying out and from rain for 12 hours. Trafficable by cars after 7 days. Fully loadable after 14 days.

Application notes

On constructions over drainage mats with open paving edges (e.g. balconies and roof terraces) the bedding mortar must be completely dry before jointing, as otherwise leaching from the bedding layer can cause efflorescence at open paving edges or at drainage fittings.

Sufficient drying through is only ensured after at least 3 days.

Consumption
Bedding thickness: 4 – 10 cm
Build-up height: approx. 17 kg/m²/cm

Packaging

Colour	Pack size (bag)	Art. no.
cement grey	25 kg	470001.825

Further properties



vdw 470 can be mixed with added water in a free-fall mixer, or ...



... for purely pedestrian use it can be spread dry over the area and wetted with water. Further information is given in the technical data sheet.

vdw Mortar Systems

for concrete, natural stone, ceramic and clinker paving



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We are glad to support you with your project!

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