

## GROUTING MORTAR VS 10



- > flowable
- > high initial strength
- > hardens quickly



### Product description

The VS 10 grouting mortar is a weatherproof and frost-resistant, cement-bound, flowable, plastic-tempered grouting mortar. The rapid development of initial strength facilitates the quick continuation of construction.

Indoors and outdoors for grouting shaft and manhole covers, anchors, installation holes (e.g. for pre-cast concrete parts), in road and railway construction, etc. For grouting cavities and recesses with a cross-section of 2 to 100 mm (filled up to 150 mm).

Depending on the season, a summer or winter version is available to adhere to the processing properties and setting times.

Mortar for anchoring reinforcement bars according to ÖNORM EN 1504-6, to increase and restore the load-bearing capacity of concrete structures (procedure 4.2).

### Delivery format

Container	Outer packaging	Pallet
30 KG / PS	-	42 PS
25 KG / PS	-	42 PS

### Storage

Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 180 days

### Processing

#### Recommended tools

Slow-rotating electric agitator, suitable mixing vessel, brick trowel, smoothing trowel, grout ladle, spatula.

## Mixing

Place the recommended amount of water in a clean mixing vessel, add the VS 10 grouting mortar and mix using a slow-rotating mixer until a homogeneous and lump-free blend is obtained (mixing time approx. 3-4 minutes).

The consistency can be adjusted with different water quantities.

Never use more water than specified for mixing!

## Processing

Process the mixed mortar quickly. Mortar that has already stiffened may not be reprocessed by adding water.

When grouting/pouring, ensure that there is an appropriate pressure gradient and pour in the mortar continuously.

Surface finishing, such as felting, should take place without adding water, if possible, so as not to alter the properties of the mortar.

Do not use the mortar for flat levelling.

## Post-treatment:

Keep the fresh mortar from drying out too quickly by taking appropriate measures (e.g. covering).

## Tool cleaning:

Clean tools and appliances with water immediately after use. Hardened material can only be removed mechanically.

## Technical data

Bulk density	approx. 1.5 kg/litre
Grain size	2 mm
Consumption	approx. 2.0 kg/m <sup>2</sup> per mm layer thickness
Layer thickness	2 to 100 mm (150 mm filled with gravel 4-8 mm)
Processing time	approx. 10 to 12 minutes
Compressive strength	1 hour: ~ 7 MPa; 6 hours: ~ 10 MPa; 1 day: ~ 15 MPa; 3 days: ~ 25 MPa; 7 days: ~ 35 MPa; 28 days: ~ 40 MPa
Draw strength	< 0.6 mm at a load of 75 kN
E-module	approx. 30 GPa
Fire class	Euro class A1
Object and material processing temperature	min. +5 °C / max. +30 °C
Processing temperature	min. +5 °C / max. +30 °C
Water consumption	approx. 3.0 to 3.25 litres of water per 25 kg of VS 10 grouting mortar

## Test certificates

Tested in accordance with (standard, classification ...)

EN 1504-6

### Substrate

#### Suitable substrates

The substrate must be clean, solid, stable and free from separating and adhesion-reducing components. Old coatings are to be removed. The concrete substrate must have a compressive strength of > 25 MPa and a surface tear strength of at least 1.5 MPa as well as sufficient surface roughness. Before applying the mortar, the concrete must be wetted to capillary saturation and then left to dry until slightly moist.

All rust must be removed from steel parts.

### Product and processing instructions

#### Material information:

- If processing outside the ideal temperature and/or humidity range the material properties could change markedly.
- Bring the materials to the proper temperature before processing!
- In order to maintain the product properties, do not add any foreign materials!
- Water dosing quantities or dilution information must be strictly adhered to!
- Check tinted products for colour accuracy before application!
- Colour consistency can only be guaranteed within the same batch.
- The colour formation is significantly impacted by the environmental conditions.
- Already mixed material that is beginning to harden may not be diluted further or mixed with fresh material!

#### Environmental information:

- Do not process at temperatures below +15°C!
- The ideal temperature range for the material, substrate and air is +15°C to +25°C.
- The ideal humidity range is 40% to 60% relative humidity.
- Increased air humidity and/or lower temperatures may prolong the drying, setting and hardening time, while lower air humidity and/or higher temperatures will speed it up.
- Ensure adequate ventilation during the drying, reaction and hardening phase; avoid draughts!
- Protect against direct sunlight, wind and weather!
- Protect adjacent components!

#### Tips:

- We recommend using a test surface first or a small area for initial, small-scale testing.
- Please heed the product data sheets of all MUREXIN products used in the process.
- Keep a genuine original container of the respective batch for later repair work.
- In the case of heated screeds, the standard bake-out process must take place before laying.
- Underfloor heating systems must not be turned on during processing and hardening.

The information provided reflects average values that were obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual deliveries may vary slightly without impacting the product suitability.

### Safety instructions

Product-specific information regarding composition, handling, cleaning, appropriate measures and disposal is provided in the safety data sheet.

#### Limitation and monitoring of exposure

##### Personal protective equipment:

##### General protective and hygienic measures:

- Keep away from foodstuffs, beverages and animal feeds.
- Remove soiled and soaked clothing immediately.
- Wash hands before breaks and at the end of work.
- Avoid contact with eyes and skin.

##### Protection:

- Respiratory protection recommended.
- Filter P2.

##### Hand protection:

- Protective gloves.
- The glove material has to be impermeable and resistant to the product / substance / preparation.

##### Glove material

## Screed and Mortar technology

- Use gloves made of stable material (e.g. nitrile).
- The selection of a suitable glove is not only dependent on the material, but also on other quality features and varies from manufacturer to manufacturer.

Penetration time of the glove material

- The exact penetration time stated by the manufacturer must be observed and adhered to.

Eye protection: Tightly sealed goggles.

Body protection: Protective work clothing.

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Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.

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