FIXING MORTAR VS 20

> high initial strength
> high frost resistance
> excellent stability

Product description

Setting mortar VS 20 is a cementitious, fast-setting, plastic-modified, frost-resistant setting mortar for manual processing indoors and outdoors in layer thicknesses of 5 to 50 mm.
The mortar is used as an installation mortar, e.g. for climbing aids in sewage shafts, for fixing railings and other installation work, for forming fillets and as a setting mortar for shaft covers.
Setting mortar VS 20 meets the requirements of ÖNORM EN 1504-3.
- Repair of concrete structures (process 3.1)
- Improvement or restoration of the load-bearing capacity of concrete structures (process 4.4)
- Preservation and restoration of passivity (processes 7.1 and 7.2)

Delivery format

Container	Outer packaging	Pallet
25 KG / PS	-	42 PS

Storage
Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 365 days

Processing

Recommended tools
Slow-rotating electric agitator, mixer, suitable mixing vessel, brick trowel, smoothing trowel, mortar ladle and spatula.

Mixing
In a clean mixing vessel using a slow-rotating agitator or mixer mix until a homogeneous and lump-free blend is obtained (mixing time approx. 3 - 4 minutes). To do so, the mortar is mixed into the prepared water.
Water consumption: approx. 4.0 l per 25 kg bag of Fixing Mortar VS 20

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Processing
Process the mixed mortar quickly. Mortar that has already stiffened may not be reprocessed by adding water. Mixing for too long or adding too much water can disrupt the setting process.
At lower temperatures it is recommended to use warm mixing water, otherwise the setting time is delayed.
Surface finishing, such as felting, should take place without adding water, if possible, so as not to alter the properties of the mortar.

Post-treatment:
Keep the fresh mortar from drying out too fast by taking appropriate measures.

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

Technical data

Bulk density	approx. 1.70 kg/dm³
Grain size	approx. 2.5 mm
Consumption	approx. 2.2 kg/m² per mm layer thickness
Water consumption	approx. 4 l / 25 kg Fixing Mortar VS 20 (approx. 0,16 l / kg)
Processing time	approx. 20 - 30 min.
Certificates/test reports/class achieved	EN 1504-03
Compressive strength	24 hours: ~ 8 MPa; 3 days: ~ 16 MPa; 28 days: ~ 30 MPa
Substrate temperature	min. +5 °C / max. +30 °C
Processing temperature	min. +5 °C / max. +30 °C
Material thickness	min. 5 mm / max. 50 mm
Mixing time	approx. 3 min.
Compressive strength	≥ 30 N/mm² (28 d)
Adhesion to concrete	≥ 1.5 MPa
Sulfate resistance (according to ÖNORM B 3309-1)	Constant at 16,000 mg

Substrate

Suitable substrates
The substrate must be clean, solid, load-bearing and free from separating agents 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. Blasting with solid abrasives is suitable as substrate pre-treatment. 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.

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Product and processing instructions

- 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 +5 °C!
- The ideal temperature range for the material, substrate and air is + 15 °C to + 25 °C.
- The ideal relative humidity range is 40% to 60%.
-Increased air humidity and/or lower temperatures may prolong the drying, setting and hardening time, while lower air humidity and/or higher temper
atures 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.
- For heated screeds, a standard heating procedure is required before laying,
- Do not turn on the underfloor heating system 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

Please refer to safety data sheet for product-specific information with regard to composition, handling, cleaning, corresponding actions and disposal.
Limiting and monitoring exposure

Personal protective equipment:
General protection and hygiene measures:
- Common safety measures for handling chemicals are to be observed.
- Keep away from foodstuffs, beverages and feedstuffs.
- Take off contaminated, impregnated clothing immediately.
- Wash your hands before taking breaks and when finishing work.
- Avoid contact with the eyes and skin.
Breathing protection:
- Wear breathing protection in case of inadequate ventilation.
- Filter P2.
Hand protection:
- Protective gloves.
- The glove material must be impermeable and resistant to the product/substance/preparation.
Glove material
- Use gloves made from stable materials (e.g. nitrile).
- The selection of a suitable glove depends not only on the material, but also on other quality properties, which may vary from manufacturer to
manufacturer.
Penetration time of the glove material
- The precise penetration time is to be found out from the protective glove manufacturer and complied with.
Eye protection: tightly sealed protective goggles.
Body protection: protective clothing.

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professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.
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.
This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.

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