

GROUTING MORTAR REPOL VS 10

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



Product description

Weatherproof and frost-resistant, cement-bonded, chloride-free, flowable, plastic-coated grouting mortar. High compressive strengths are achieved very quickly; these high initial strengths enable rapid further construction.

In indoor and outdoor areas for permabond grouting of manhole covers, anchors, mounting holes (e.g. pre-cast concrete parts), in road and railway construction, etc. For the grouting of cavities and recesses of 2 to 100 mm cross-section (unfilled), up to 150 mm cross-section filled with gravel of 4-8 mm particle size.

Delivery format:

Container	Outer packaging	Palette
30 KG / PS		42 pcs.

Storage:

Can be stored frost-free, cool and dry places on wooden shelves in unopened original container for 730 days.

Processing

Recommended tools:

Slow running electric agitator, mixing machine, suitable mixing vessel, masonry trowel, smoothing trowel, mortar skillet, spatula.

Mixing:

Take a clean mixing vessel and add this product to water using a slow-rotating mixer or a mixing machine until a homogeneous and lump-free blend is obtained (mixing time approx. 3-4 minutes). For this purpose, the water is introduced and the mortar is mixed in.

Mixing ratio (consistency F52):

approx. 3.6 litres of water (equivalent to approx. 0.12 l/kg)
per 30 kg Repol VS 10

Mixing ratio (consistency F73):

approx. 3.9 litres of water (equivalent to 0.13 l/kg)
per 30 kg Repol VS 10

Processing:

Only introduce the mortar into the formwork from one side and, if necessary, bleed it with an external vibrator, taking care that sufficient ventilation openings are present in the formwork

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Compressive strength development:
(measured on 4 x 4 x 16 prisms, F 52)
after 1 hr. c. 10 N/mm²
after 3 hrs. c. 12 N/mm²
after 1 day c. 15 N/mm²
after 3 days c. 25 N/mm²
after 7 days c. 35 N/mm²
after 28 days c. 40 N/mm²

E-Module: c. 30,000 N/mm²

After-treatment:

Protect exposed poured concrete surfaces against excessive drying out with moist coatings or evaporation protection. Formwork is already possible to remove after about half an hour.

Technical specifications

Bending tensile strength	28 d
Usage	2.0 kg per litre of fresh mortar
Layer thickness	max. 10 cm
Bulk density	1.5 kg per dm ³
Water consumption for consistency F52 (very soft)	0.12 litres per kg
Water consumption for consistency F73 (extremely flowable)	0.13 litres per kg
Particle size	0-2 mm
Processing time for consistency F52	11 mins.
Processing time for consistency F73	12 mins.

Test certificates

Tested in accordance with (standard, classification ...)
EN 1504-6

Substrate

Suitable substrates:

The substrate must comply with the requirements of the OVBB Directive - Maintenance and repair of concrete and reinforced concrete structures. Furthermore, the subsurface is supportive and free from separation, intrinsic or foreign substances, as well as from corrosion-promoting media, e.g. chlorides, and is pre-treated to capillary saturation at least 12 hours prior to repair. Tensile strength at least 1.5 N/mm². Compressive strength at least 25 N/mm².

Substrate preparation:

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The substrate should be pre-treated using appropriate mechanical methods.

Produkt- und Verarbeitungshinweise

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 - 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.

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering 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.