

RENOVATING MORTAR REPOL SM 20

- > frost/ de-icing agent resistant
- > statically relevant
- > high stability
- > shrinkage-compensating



Product description

Mineral, chloride-free, low-chromate renovating mortar for concrete repairs as per EN 1504-3 of Class R4. Indoors and outdoors vertically and overhead for extensive layer thicknesses of up to 20 mm per work step (partially up to 40 mm possible). Can be applied manually or in wet spray process. For concrete repair work for reprofiling mineral substrates such as concrete, reinforced concrete, mortar, etc.

Delivery format:

Container	Outer packaging	Pallet
30 KG / PS		42

Storage:

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

Processing

Recommended tools:

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

Processing:

Process the mixed mortar quickly. Mortar which has already stiffened may not be made processable again 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:

Too rapid drying of the fresh mortar is to be prevented with corresponding measures.

Technical data

Grain size	2 mm
Consumption	approx. 1.9 per mm / m ² layer thickness
Layer thickness	5 - 20 mm
Processing time	approx. 45 min.
Bulk density	approx. 2.0 kg/dm ³
Water consumption	approx. 0.15 - 0.16 l/ kg
Mixing time	approx. 2 - 3 min.

Test certificates

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

ÖNORM EN 1504-3:2006 Klasse R4

Brandverhalten: Klasse A1 (unbrennbar) gemäß EN 13501-1

Substrate

Suitable substrates:

Suitable substrates:

The substrate meets the requirements of the OVBB Guideline – Conservation and Rehabilitation of Concrete and Reinforced Concrete Structures. Furthermore, the substrate must be load-bearing and free of similar and dissimilar substances as well as substances that have a separating effect, corrosive media, such as chlorides, and must be pre-wetted for at least 12 hours before restoration until capillary saturation. Adhesive tensile strength at least 1.5 N/mm². Compressive strength at least 25 N/mm².

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 +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 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.

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- 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:

- 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:

- Not required with adequate room ventilation.

Hand protection: protective gloves.

Glove material

- Butyl rubber
- Nitrile rubber

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: protective goggles.

Body protection: protective 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. 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.