

FINE FILLER FS 4



- > strong adhesion to the substrate
- > low shrinkage
- > can be processed manually or mechanically
- > freeze-thaw resistant
- > easy to process



Product description

The FS 4 fine filler is a cement-bound, polymer-modified, freeze-thaw resistant surface filler for layer thicknesses of 0.5-5 mm.

The product is suitable as a pore and void filler as well as a surface filler for large-scale application on concrete substrates and is characterized by its excellent processing properties.

The FS 4 fine filler meets the requirements of ÖNORM EN 1504-3.- Repair of concrete structures (processes 3.1 and 3.3)- 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, suitable mixing vessel, brick trowel, smoothing trowel, mortar pan, spatula.

Mixing

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

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.

Surface finishing, such as felting or rubbing should be carried out 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 (e.g. covering).

Cleaning tools:

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

Technical data

Chemical base	cements, aggregates and admixtures
Grain size	0.3 mm
Consumption	approx. 1.7 kg/m ² per mm layer thickness
Water consumption	~ 5.75 litres per 25 kg of FS 4 fine filler
Layer thickness	0.5 - 5 mm
Processing time	approx. 30 minutes
Recoatibility	With itself after approx. 24 hours; with Murexin surface protection systems after approx. 4 days; with Murexin hydrophobization after 28 days (at 20 °C).
Certificates/test reports/class achieved	EN 1504-3 R2
Compressive strength	~ 12 MPa after 24 hours; ~ 28 MPa after 7 days; ~ 35 MPa after 28 days
Capillary water absorption	~ 0.11 kg*m ⁻² *h ^{-0.5}
Fire class	Euro class A1
Thermal shock resistance	with freeze-thaw stress: ~ 2.0 MPa
Object and material processing temperature	min. +5 °C / max. +30 °C
Processing temperature	min. +5 °C / max. +30 °C
Mixing time	approx. 3 min.
Modulus of elasticity	~ 12 GPa
Solid mortar density	~ 1700 kg/m ³
Adhesive tensile strength	~ 1,5 MPa

Test certificates

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

EN 1504-3

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 (min. 0.3 mm). Blasting with solid abrasives is suitable to prepare the substrate.

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:

- The properties of the material may be significantly altered if it is not processed within the recommended temperature and/or humidity range.
- Bring materials up to corresponding temperature before processing!
- In order to maintain the product properties, do not add any foreign materials!
- The added water 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 environmental conditions significantly impact colour formation.

Environmental information:

- Do not process at temperatures below +5 °C!
- The ideal temperature range for material, substrate and air is +15 °C to +25 °C.
- The ideal relative air humidity range is between 40% to 60%.
- Increased humidity and/or lower temperatures delay, lower air humidity and/or higher temperatures accelerate drying, setting and hardening.
- Ensure adequate ventilation during the drying, reaction and hardening phase; avoid draughts!
- Protect from direct sunlight, wind and weather!
- Protect adjoining components!

Tips:

- We recommend using a test surface first or a small area for initial, small-scale testing.
- Please observe 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.

The information provided reflects average values that have been obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual batches 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 if the room is well ventilated.

Hand protection: Protective gloves.

Screeed and Mortar technology

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 glasses.

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.

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