

INDUSTRIAL COMPOUND FMI 50

- > abrasion-resistant
- > ready-to-use floor covering
- > self-levelling
- > quick hardening



Product description

Self-levelling, machine or manual, easy to process levelling compound or usable layer in layer thicknesses from 3 - 50 mm for indoors and outdoors. Especially suited to the production of even, high-load industrial floors. Due to its high mechanical strength, the mineral casting compound can be left as a usable end coating. If necessary, the surface can be impregnated, sealed or coated with reactive resin. Indoors and outdoors for producing even, high-load industrial floors, in shopping centres, office buildings, exhibition halls, etc.

Delivery format:

Container	Outer packaging	Pallet
25 KG / PS		48

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, suitable mixing vessel, trowel, smoothing trowel, spatula, scraper or suitable mixing pump.

Mixing:

Take a clean mixing vessel and add this product to water using a slow-rotating agitator (approx. 300-600 rpm) until a homogeneous and lump-free blend is obtained (mixing time approx. 4 minutes).

The material is stirred or added in the mixing ratio/dosing indicated.

A scale or a measuring cup must be used to determine partial quantities.

Mixing ratio:

approx. 4.5 litres of water (corresponds to approx. 0.18 l/kg) per 25 kg Slump-flow Industrial FMI 50

Processing:

Pour the fresh smoothing compound onto the substrate in one work step, if possible, up to the desired layer thickness (3-50 mm) and distribute evenly. With multi-layered application, the next layer must be applied immediately after the substrate can be walked on (approx. 1-2 hours). Always prime again with longer intervals. Murexin Slump-flow Industrial FMI 50 can be pumped and is suitable for scraping.

We recommend impregnation of the surface for outdoor use and/or as usable end coating.

Too rapid drying of the fresh levelling compound and Slump-flow Industrial FMI 50 is to be prevented with corresponding measures.

Technical data

Density	Fresh mortar density: ~2,100 kg/m ³ ; dry mortar density: ~1,300 kg/m ³
Colour	Cement grey
Consumption	1.7 kg/m ² per mm layer thickness
can be walked on	after 3 - 4 hrs depending on layer thickness
pH value	~12
Layer thickness	3 -50 mm per work step
Processing temperature	+5 °C to +35 °C
Processing time	30 min.
Setting time	90 min.
Wear stress	XM3; also for covering areas which are often driven over by track
Labelling	C 35 / F 10 according to EN 13813
Flow spread	approx. 16 - 18 cm (d = 50 mm / h = 35 mm)

Test certificates

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

Geprüft lt. ÖNORM B 4710-1: Verschleißbeanspruchung XM3

Substrate

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!

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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.
 - 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.

Breathing protection:

- Filter P2.
- Wear breathing protection in case of inadequate ventilation.

Hand protection:

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

Glove material

- Nitrile rubber
- Use gloves made from stable materials (e.g. nitrile).

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 recommended when decanting.

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.