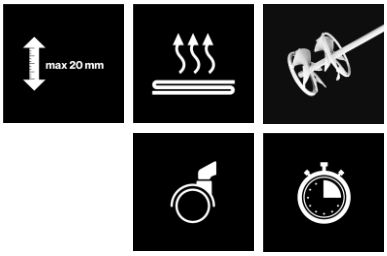
# TopLevel FZ 100 Self-Levelling Compound Pro




> highly-tempered levelling compound
> rapid drying
> extremely good flow
> very low-emission, EC1-PLUS




## Product description

Powder-form cement-based, polymer-modified, self-levelling compound for producing smooth, level subfloors in interior areas. Suitable for application thicknesses of up to 20 mm per layer prior to the installation of floor coverings and parquet flooring.
The product contains specialist superplasticisers and offers excellent flow properties. It is suitable for pump application as well as manual application using a smoothing blade or notched squeegee. Once hardened, it forms a very smooth, easily sandable surface which can be covered with floor coverings once fully dry.
Suitable for use with underfloor heating and in areas subject to castor chair traffic.

**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, trowel, smoothing trowel, spatula, scraper, hobnailed boots, spiked roller.

**Mixing**
Pour the specified amount of water into a clean mixing container. Gradually add the powder while stirring and mix thoroughly using a slow-speed mixer until a homogeneous, lump-free consistency is achieved. Mixing time: approx. 4 minutes. For optimum mixing results, use the DLX mixing paddle.



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**Processing**

Pour the freshly mixed levelling compound onto the prepared and primed substrate, preferably in a single application, to the required thickness, up to a maximum of 20 mm, and spread evenly. TopLevel FZ 100 is pumpable and suitable for application using a smoothing blade or squeegee. The minimum application thickness beneath parquet flooring is 3 mm.
For multi-layer applications, allow the previous layer to dry sufficiently before applying a coat of MurePrime D1, LF1 or DX9, diluted with water as appropriate to the absorbency of the substrate. The primer must be allowed to dry completely before applying the next layer.
For application thicknesses exceeding 20 mm, TopLevel FZ 100 must be extended with quartz sand of grain size 0.1–0.5 mm or 0.3–0.8 mm to reduce stress build-up. The amount of quartz sand added must not exceed 25% by weight, based on the powder weight of the levelling compound, corresponding to a maximum of 6.5 kg of quartz sand per 25 kg bag.
Adding quartz sand reduces the flow properties of the levelling compound. The specified mixing water quantity must remain unchanged. Adding extra water to compensate for the reduced flow properties is not recommended, as excessive water may cause fine particles to rise to the surface.
The working time is approximately 20 minutes. The surface is ready for foot traffic after approximately 2–4 hours and, at an application thickness of 3 mm, ready to receive floor coverings after approximately 24 hours. Longer drying times must be allowed for greater application thicknesses and/or non-absorbent substrates. Lower temperatures and higher humidity levels will extend the drying time.

In the case of subsequently installed underfloor heating systems, the heating panels or carrier boards must be securely bonded or mechanically fixed by screwing to the load-bearing substrate to ensure a firm, non-slip connection before levelling. The heating system manufacturer's specifications regarding substrate preparation, fixing and the required covering thickness must be observed. The general minimum layer thickness of 5 mm does not replace any system-specific covering thickness requirements.

## Technical data

| | |
|---|---|
| Chemical base | cement |
| Consumption | approx. 1.5 kg/m² per mm of application thickness<br>Consumption at 3 mm thickness: approx. 4.5 kg/m²; coverage approx. 5.6 m²<br>Consumption at 5 mm thickness: approx. 7.5 kg/m²; coverage approx. 3.3 m²<br>Consumption at 10 mm thickness: approx. 15.0 kg/m²; coverage approx. 1.7 m²<br>Consumption at 15 mm thickness: approx. 22.5 kg/m²; coverage approx. 1.1 m²<br>Consumption at 20 mm thickness: approx. 30.0 kg/m²; coverage approx. 0.8 m²<br>Coverage figures are based on one bag. |
| Water consumption | 5.5 to 6.0 l / 25 kg bag |
| Layer thickness | max. 20 mm per application |
| Ready for laying | Layer thickness up to 3 mm: approx. 10–12 hours<br>Layer thickness up to 5 mm: approx. 14–20 hours<br>Layer thickness up to 10 mm: approx. 24–48 hours<br>For each additional mm: approx. +12 hours<br>Drying times are based on a relative humidity of 50% at 20°C. |
| Processing time | approx. 20 Min. |



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| | |
|---|---|
| Can be walked on | after approx. 2 - 4 hrs. |
| Bending tensile strength | F10 |
| Compressive strength | C35 |
| Object and material processing temperature | Ideal temperature range for the material, substrate and ambient air: +15 to +25 °C |
| Substrate temperature | at least +15 °C |

## Test certificates

**Tested in accordance with (standard, classification ...)**
according to DIN 13813 C35 F10
Fire class A1 fl according to DIN EN 13501-1
EC1-PLUS

## Substrate

**Suitable substrates**
- Suitable conventional mineral-based substrates
- Cement screeds and concrete floors
- Suitable cement-based dry screed elements

Priming and Substrate Preparation
On absorbent substrates, suitable primers such as MurePrime LF 1 (undiluted), MurePrime D 1 or MurePrime DX 9 must be used. Depending on the absorbency of the substrate, MurePrime D 1 and MurePrime DX 9 may be diluted with water at a ratio of 1:1 up to a maximum of 1:3. The applied primers must be allowed to dry completely before proceeding with subsequent work steps.

On non-absorbent substrates, MurePrime DX 9 (undiluted) or MurePrime D 4 Rapid (undiluted) must be used. With MurePrime DX 9, layer thicknesses of up to a maximum of 10 mm per application are permitted; with MurePrime D 4 Rapid, layer thicknesses of up to a maximum of 15 mm per application are permitted. The lower of the two limit values shall apply: the permissible layer thickness on the selected primer and the maximum layer thickness of the levelling compound per application specified in the technical data of this product data sheet.
For problematic substrates that are fundamentally suitable for the application, a suitable Murexin epoxy resin, SMP or PU primer must be used. This also applies to layer thicknesses exceeding 15 mm in a single application, provided that the levelling compound used is approved for the intended layer thickness per application. While the primer is still fresh, the entire surface must be broadcast with a suitable excess quantity of quartz sand. The indicative consumption is approx. 3.0 kg/m².
Once fully cured, any loose excess sand must be carefully removed and vacuumed off.
If no perimeter insulation strips are present, RS 50 perimeter insulation strips must be properly installed before commencing the levelling work.



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After sanding, the levelling compound must be thoroughly vacuumed. If any remaining sanding dust cannot be completely removed, the use of a dust-binding primer, MurePrime LF 1, is recommended in accordance with the system specifications. Particularly at higher temperatures, this can reduce premature drying of the adhesive and extend its open time.

The substrate must be dry, frost-free, sound, load-bearing, dimensionally stable and free from dust, dirt, oil, grease, release agents and loose particles. It must comply with the applicable national and European technical guidelines and standards, as well as the generally recognised rules of good practice.

## Product and processing instructions

Material information

- When processing outside the ideal temperature and/or humidity range, the material properties may change significantly.
- Condition materials to the appropriate temperature before application.
- To maintain the product properties, no foreign materials may be added.
- Strictly observe the specified water quantities and dilution instructions.
- Mixed material that has already started to stiffen must not be diluted further with water or mixed with fresh material.
- The specified flexural and compressive strength values are based on the stated water addition rate. Any change in the amount of water added may affect these values.

Ambient conditions

- Do not apply at substrate temperatures below +15°C.
- The ideal temperature range for the material, substrate and ambient air is +15°C to +25°C.
- The ideal relative humidity range is 40–60%.
- Higher humidity and/or lower temperatures delay drying, setting and hardening.
- Lower humidity and/or higher temperatures accelerate these processes.
- Ensure adequate ventilation during drying and hardening; avoid draughts.
- Protect from direct sunlight, wind and adverse weather conditions.
- Protect adjacent building components.

Tips

- We recommend carrying out a test application or trial area beforehand.
- Observe the technical data sheets of all Murexin products used in the system.
- Keep an unopened original product from the respective batch for subsequent repair work.
- For heated screeds, the standard heating-up procedure must be completed before installing floor coverings.
- Underfloor heating must remain switched off during application and hardening.

The information provided represents average values determined under laboratory conditions. Due to the use of natural raw materials, the stated values may vary slightly between individual batches without affecting the product's suitability for its intended use.

## Safety instructions

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.



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