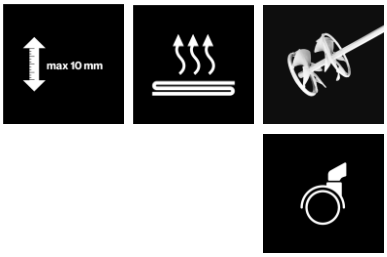
TopLevel HL 45 Hybrid levelling compound





> suitable for problematic surfaces
> suitable for all types of coverings
> rapid drying
> virtually tension-free

Product description

HL 45 is a self-levelling smoothing compound based on a hybrid cementitious and calcium sulphate formulation, designed for smoothing and levelling problematic substrates in interior areas, such as mastic asphalt screeds, existing timber substrates and mixed substrates.
The compound hardens with virtually no shrinkage-induced stress, thereby minimising the risk of cracking, even at greater layer thicknesses.
The material has excellent flow properties and can be either pumped or spread using a notched smoothing rake. Thanks to its excellent flow characteristics, subsequent spiked roller application is not strictly necessary. Once hardened, it forms a smooth surface that can be easily sanded. After complete drying, it is suitable for all conventional types of floor coverings, including parquet flooring.
Fully suitable for use with underfloor heating systems.
Not suitable for areas subject to permanent exposure to water.

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.

Murexin GmbH: A-2700 Wiener Neustadt, Franz von Furtenbach Straße 1
Tel.: +43(0)2622 / 27 401 - 0, Fax: +43(0)2622 / 27 401 DW 187
E-Mail: info@murexin.com, www.murexin.com

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.

Processing
Pour the fresh levelling compound onto the prepared and primed substrate, preferably in a single application, to the required layer thickness, up to a maximum of 10 mm, and spread evenly. TopLevel HL 45 is pumpable and suitable for application using a smoothing rake. The minimum layer thickness beneath parquet flooring is 3 mm.
When applying in multiple layers, once the previous layer has dried sufficiently, apply a coat of MurePrime D 1, MurePrime LF 1 or MurePrime DX 9, diluted according to the absorbency of the substrate. The primer must be allowed to dry completely before applying the next layer.
For layer thicknesses exceeding 10 mm, TopLevel HL 45 must be extended with quartz sand of grain size 0.1–0.5 mm or 0.3–0.8 mm. The maximum addition is 25% by weight, based on the powder weight of the levelling compound, equivalent 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 overwatering may cause fine particles to rise to the surface.
The working time is approximately 30–40 minutes, depending on the ambient temperature. The surface is ready for foot traffic after approximately 3 hours. At a layer thickness of 3 mm, the compound is ready to receive floor coverings after approximately 10–12 hours.
Longer drying times must be allowed for greater layer thicknesses and lower ambient temperatures.

For subsequently installed underfloor heating systems, the heating or carrier boards must be securely bonded to the load-bearing substrate by mechanical fixing or adhesive bonding before levelling. The heating system manufacturer's instructions regarding substrate preparation, fixing and the required covering thickness must be observed. The general minimum layer thickness of 5 mm does not replace any greater covering thickness required by the specific system.

Technical data

Chemical base	Hybrid system (cementitious / calcium sulfate-based)
Colour	light grey
Consumption	Approx. 1.5 kg/m² per mm of layer thickness Consumption at 3 mm layer thickness: approx. 4.5 kg/m²; coverage per 25 kg bag: approx. 5.5 m² Consumption at 5 mm layer thickness: approx. 7.5 kg/m²; coverage per 25 kg bag: approx. 3.3 m² Consumption at 10 mm layer thickness: approx. 15 kg/m²; coverage per 25 kg bag: approx. 1.6 m²
Water consumption	max. 5.5 l per 25 kg unit
Layer thickness	1 - 10 mm per application
Ready for laying	- Layer thickness up to 3 mm: approx. 10–12 h - Layer thickness up to 5 mm: approx. 14–20 h - Layer thickness up to 10 mm: approx. 24–48 h Drying times refer to a relative humidity of 50 % at 20°C

Murexin GmbH: A-2700 Wiener Neustadt, Franz von Furtenbach Straße 1
Tel.: +43(0)2622 / 27 401 - 0, Fax: +43(0)2622 / 27 401 DW 187
E-Mail: info@murexin.com, www.murexin.com

mechanically load-bearing	ready for foot traffic after approx. 3 h
Processing time	30 - 40 min
Certificates/test reports/class achieved	EC1+
Bending tensile strength	F7
Compressive strength	C35
Substrate temperature	min. + 15°C

Substrate

Suitable substrates
Suitable conventional mineral substrates
Cement screeds and concrete floors
Calcium sulphate (anhydrite) screeds
Mastic asphalt
Timber substrates
Suitable dry screed elements based on cement and gypsum
Mixed substrates

On absorbent substrates, suitable primers such as MurePrime LF 1 (undiluted), MurePrime D 1 or MurePrime DX 9 must be used. 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, depending on the absorbency of the substrate. The applied primers must be allowed to dry completely before proceeding with subsequent work.
On non-absorbent substrates, MurePrime DX 9 (undiluted) or MurePrime D 4 Rapid (undiluted) must be used. When using MurePrime DX 9, layer thicknesses of up to a maximum of 10 mm per application are permitted; when using MurePrime D 4 Rapid, the maximum is 15 mm per application. The lower of the two applicable limits shall always apply: the maximum permissible layer thickness for the selected primer and the maximum layer thickness per application specified in the technical data of this product data sheet for the levelling compound.
For problematic substrates that are fundamentally suitable for 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 wet, the entire surface must be fully blinded with a suitable excess of quartz sand. The approximate application rate is 3.0 kg/m². Once fully cured, all loose excess sand must be carefully removed and vacuumed off.
If no perimeter insulation strips are present, RS 50 perimeter insulation strips must be correctly installed before commencing the levelling work.
After sanding, the levelling compound must be thoroughly vacuumed. If any residual sanding dust cannot be completely removed, the use of a dust-binding primer, MurePrime LF 1, is recommended in accordance with the system specifications. This can help prevent premature drying of the adhesive, particularly at higher temperatures, 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

Murexin GmbH: A-2700 Wiener Neustadt, Franz von Furtenbach Straße 1
Tel.: +43(0)2622 / 27 401 - 0, Fax: +43(0)2622 / 27 401 DW 187
E-Mail: info@murexin.com, www.murexin.com

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.

Murexin GmbH: A-2700 Wiener Neustadt, Franz von Furtenbach Straße 1
Tel.: +43(0)2622 / 27 401 - 0, Fax: +43(0)2622 / 27 401 DW 187
E-Mail: info@murexin.com, www.murexin.com