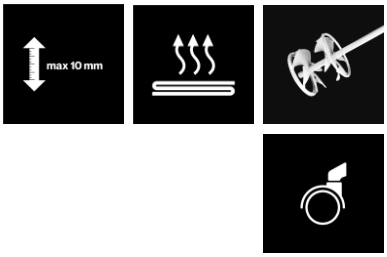
TopLevel HL 45 Hybrid levelling compound

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



Product description

HybridBase HL 45 is a self-levelling smoothing compound based on a hybrid system (cementitious / calcium sulfate-based) for levelling and smoothing substrates in interior applications.
HybridBase HL 45 cures almost free of internal stress, thereby minimizing the risk of cracking even at higher layer thicknesses and enabling use on problematic as well as mixed substrates.
The material has good flow properties and can be either pumped or spread using a notched squeegee. Due to its excellent flow characteristics, subsequent spike rolling of the surface is not absolutely necessary.
After hardening, a smooth, easily sandable surface is created, which—after complete drying—can be covered with all common types of floor coverings, including parquet.
Fully suitable for use with underfloor heating.
Not suitable for permanent wet areas.

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

Processing
Mix the levelling compound in a clean mixing container using an electric mixer until homogeneous and free of lumps (mixing time approx. 2 min). Optimal mixing results are achieved especially when using the DLX mixer.

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Primer and substrate preparation:
On absorbent substrates, suitable primers such as Deep Primer LF 1, Primer D 1 (diluted with water up to a maximum ratio of 1:3), or Special Bonding Primer DX 9 (also diluted with water up to a maximum ratio of 1:3) must be used. The applied primers must be completely dry before proceeding with further work steps. On non-absorbent substrates, use Special Bonding Primer DX 9 undiluted or Super Primer D 4 Rapid. The maximum permissible layer thickness of the subsequent levelling compound per application is 10 mm in this case.

For problematic substrates, a suitable Murexin epoxy resin, SMP, or PU primer may be used if necessary. While still fresh, it must be fully broadcast with excess quartz sand (approx. 2.5–3.0 kg per m²) to ensure a secure mechanical bond for the subsequent levelling compound. After full curing, any excess non-bonded sand must be carefully removed and vacuumed off.

If no edge insulation strips are present, they must be properly installed before starting the levelling works using RS 50 edge insulation strips.

If sanding dust cannot be completely removed after sanding the levelling compound (e.g. due to limited suction capacity), it is recommended to apply a dust-binding primer using Deep Primer LF 1 before applying the adhesive. This binds residual dust and also—especially at higher temperatures—extends the open time and prevents premature drying of the adhesive.

The working time is approx. 30 - 40 minutes depending on ambient temperature. Ready for foot traffic after approx. 3 hours. Readiness for floor covering installation is achieved after approx. 10 - 12 hours at a 3 mm layer thickness.
With higher layer thicknesses and lower room temperatures, longer drying times must be taken into account.
The stated flexural and compressive strength values refer to a water ratio of 0.22 l per kg; if the amount of water is changed, these values may vary.

Technical data

Chemical base	Hybrid system (cementitious / calcium sulfate-based)
Colour	light grey
Consumption	- At 1 mm layer thickness: approx. 1.5 kg/m² – coverage per 25 kg unit: approx. 16.6 m² - At 3 mm layer thickness: approx. 4.5 kg/m² – coverage per 25 kg unit: approx. 5.5 m² - At 10 mm layer thickness: approx. 15 kg/m² – coverage per 25 kg unit: approx. 1.6 m²
Water consumption	max. 5.5 l per 25 kg unit
Layer thickness	1 - 10 mm
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

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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
Standard construction mineral substrates
Cement screeds and concrete floors
Dry screed elements based on cement

The substrate must be dry, frost-free, solid, load-bearing, dimensionally stable, and free from dust, dirt, oil, grease, release agents, and loose particles, and must comply with applicable national and European technical guidelines, standards, and generally accepted rules of the trade.

On absorbent substrates:
- Deep primer LF 1 (undiluted)
- Special bonding primer DX 9 (1:1 to 1:3)
- Primer D 1 (1:1 to 1:3)

On non-absorbent substrates:
- Special bonding primer DX 9 (undiluted) – layer thickness per application max. 10 mm
- Super Primer D 4 Rapid (undiluted) – layer thickness per application max. 15 mm

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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