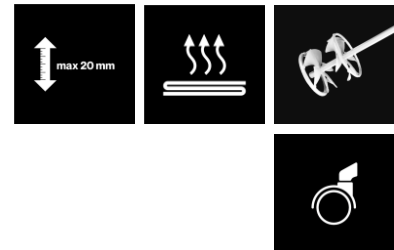


Top Level HL 120 Hybrid-Levelling Compound Pro



- > Suitable for problematic substrates
- > fiber-reinforced
- > rapid drying
- > virtually stress-free
- > for layer thicknesses up to 20 mm



Product description

HL120 HybridPro is a fiber-reinforced, self-leveling smoothing compound based on hybrid technology (cementitious / calcium sulfate-based) for leveling and smoothing substrates in interior areas.

The performance-optimized binder system ensures virtually stress-free setting behavior and enables reliable application even on critical and mixed substrates.

Due to the fiber reinforcement and reduced shrinkage stress, the risk of cracking is significantly minimized, even at greater layer thicknesses.

The smoothing compound can be applied up to 20 mm in a single operation.

The material exhibits excellent flow and leveling properties and can be applied both by pump and manually using a notched squeegee.

Additional deaeration with a spiked roller is generally not required.

After curing, a smooth, easily sandable surface is obtained, which—after complete drying—can be covered with all standard types of floor coverings, including parquet.

Not suitable for use in permanently wet areas.

Storage

Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 365 days

Processing

Processing

Mix the leveling compound in a clean mixing container using an electric mixer until homogeneous and free of lumps (mixing time approx. 2 minutes).

An optimal mixing result is achieved in particular when using a DLX mixer.

Priming and Substrate Preparation

On absorbent substrates, suitable primers such as Deep Primer LF 1, Pre-coat D1 (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 of 1:3) must be used.

All applied primers must be completely dry before proceeding with further work steps.

On non-absorbent substrates, Special Bonding Primer DX 9 (undiluted) or Super Primer D4 Rapid must be used.

When using DX 9, the maximum permissible layer thickness of the subsequent leveling compound per application is 10 mm; when using D4 Rapid, a maximum of 15 mm.

For problematic substrates or layer thicknesses exceeding 15 mm in a single application, a suitable Murexin epoxy resin, SMP, or PU primer must be used.

While still fresh, this must be fully broadcast with suitable quartz sand to excess (approx. 2.5–3.0 kg/m²) in order to ensure reliable mechanical interlocking for the subsequent leveling compound. After complete curing, any unbound excess sand must be carefully removed and vacuumed.

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

If sanding dust cannot be completely removed after sanding the leveling compound (e.g., due to limited vacuum performance), it is recommended to apply a dust-binding primer using Deep Primer LF 1 before applying the adhesive.

This binds residual dust and, particularly at higher temperatures, extends the open time while preventing premature drying of the adhesive.

The working time is approximately 30–40 minutes, depending on ambient temperature.

Walkable after approx. 2 hours.

Ready for covering at a layer thickness of 3 mm after approx. 8–10 hours.

For greater layer thicknesses and/or lower room temperatures, longer drying times must be taken into account.

The specified flexural and compressive strengths refer to a water ratio of 0.20 L per kg. Any variation in the water content may result in deviations from these values.

Technical data

Chemical base

Colour

Hybrid (cementitious / calcium sulfate-based)

Medium 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 - At 20 mm layer thickness: approx. 30 kg/m² → coverage per 25 kg unit: approx. 0.8 m²
Water consumption	max. 5.5 L per 25 kg unit
Layer thickness	1 – 20 mm
Ready for laying	- layer thickness up to 3 mm: approx. 8 – 10 hours - layer thickness up to 5 mm: approx. 12 – 18 hours - layer thickness up to 10 mm: approx. 24 – 36 hours - layer thickness up to 20 mm: approx. 48 – 72 hours Drying times refer to 60% relative humidity at 20°C
mechanically load-bearing	walkable after approx. 3 hours
Processing time	30 – 40 minutes
Certificates/test reports/class achieved	EC1+
Bending tensile strength	F10
Compressive strength	C40
Substrate temperature	min. +15°C

Substrate

Suitable substrates

Typical mineral substrates used in construction

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. It must comply with applicable national and European technical guidelines, standards, and the “generally accepted rules of the trade.”

On absorbent substrates:

Deep primer LF 1 (undiluted)

Special bonding primer DX 9 (diluted 1:1 to 1:3)

Pre-coat D 1 (diluted 1:1 to 1:3)

On non-absorbent substrates:

Special bonding primer DX 9 (undiluted) – max. 10 mm per application

Super primer D 4 Rapid (undiluted) – max. 15 mm per application

Product and processing instructions

Material Notes

Processing outside the ideal temperature and/or humidity range may significantly alter material properties.

Condition materials to the appropriate temperature before application.

Do not add any foreign materials in order to maintain product properties.

Water addition and dilution ratios must be strictly observed.

Check tinted products for color accuracy before use.

Color consistency can only be guaranteed within the same batch.

Color development is significantly influenced by ambient conditions.

Mixed material that has already started to set must not be re-diluted or mixed with fresh material.

The specified flexural and compressive strengths refer to a water ratio of 0.22 L per kg. Any deviation in water content may result in changes to the strength class.

Environmental Notes

Do not apply at substrate temperatures below +15°C.

The ideal temperature range for material, substrate, and air is between +15°C and +25°C.

The ideal relative humidity range is between 40% and 60%.

High humidity and/or low temperatures delay drying, setting, and curing; low humidity and/or higher temperatures accelerate these processes.

Ensure adequate ventilation during drying, reaction, and curing; avoid drafts.

Protect from direct sunlight, wind, and weather exposure.

Protect adjacent components.

Tips

As a general rule, we recommend preparing a test area in advance or carrying out a small-scale trial.

Observe the technical data sheets of all MUREXIN products used within the system.

Keep an unopened original product from the same batch for repair work.

For heated screeds, the standardized heating protocol must be completed prior to installation.

Underfloor heating must not be switched on during application and curing.

All stated values are average values determined under laboratory conditions. Due to the use of natural raw materials, slight variations in the values of individual deliveries may occur without affecting product suitability.

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.