

FLOOR HARDENER BH 100



- > colourfast
- > ready-to-use
- > abrasion-resistant

Product description

Spreading hard grain for concrete and screed floors.

Factory pre-mixed, ready-to-use dry material consists of special, natural hard materials, Portland cement and dispersing agents. The inorganic pigments are resistant to cement, alkali, light and guarantee a long-lasting colour fastness of the floor. The dispersing agents ensure even distribution.

Indoors and outdoors

Public buildings: pavements made from concrete, roller skating rinks, sports grounds, terraces, truck and car ramps, schools, hospitals, exhibition halls, offices, garages, cellars.

Industrial buildings: industrial floors with moderate loads, furniture factories, supermarkets, parking garages, shops, workshops.

The spread product fully moistens itself in that it absorbs water from the concrete or screed mixture and thus forms an extremely thick and compact, coloured surface. Low cost per m², high abrasion resistance, high impact resistance, high surface density, low absorption of oil and grease, easier to clean.

Delivery format:

Container	Outer packaging	Pallet
30 KG / PS		36

Storage:

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

Processing

Recommended tools:

Trowel, finishing trowel, screed smoother, trowel, rotating smoother.

Mixing:

Floor hardener BH 100 is ready-to-use and thus guarantees a precise ratio of the individual components as well as evenness in mixture and colour. Thus on-site mixing errors can be excluded.

Processing:

Floor hardener BH 100 is applied manually to the concrete or screed surface, preferably in two successive work steps. The first layer should be applied to the fresh concrete/screed but can already be walked on (wet on wet processing). As soon as the applied material is damp (dark colouration - absorbs water from the underlying concrete or screed), smooth at least 2x with a trowel or finishing trowel, each time opposite to the previous direction. After the first layer has been spread, the last third of floor hardener BH 100 is applied and the smoothing process repeated via finishing trowel or power trowel, until the desired surface is achieved. Manually smooth edge zones if necessary; the best surface qualities are achieved by mechanical surface smoothing.

Post-treatment

Protect the concrete from uncontrolled water extraction with floor hardener BH 100 approx. 1-2 hours after processing by laying down a PE film, or use Murexin evaporation protection.

Technical data

Compressive strength	(28d) approx. 80 N/mm ²
Consumption	min. 3 kg/m ² - depending on the floor load
Layer thickness	2 - 3 mm
Processing temperature	not below +5 °C
Abrasion resistance	4.8 cm ³ / 50 cm ² (object-specific friction value varies depending on the quality of the binding agent and/or stone grain used locally.)
as per EN 13813	A6 (Böhme dry)
as per B 4710-1	XM3

Test certificates

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

Schleifverschleiß nach Böhme gemäß ÖNORM 3126-2

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.

Suitable:

Floor hardener BH 100 can be applied to fresh concrete surfaces as per ÖN B 4710-1 or screeds as per EN 13813.

Not suitable:

Floor hardener BH 100 cannot be applied to air-entrained concrete > 5 % vol.

For a perfect system

Description:

Underground concrete: min. C 25/30 (as per ÖN B 4710-1)

Binding agent: CEM I 42.5 R

W/B value: approx. 0.53

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!

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.
- Avoid contact with the eyes and skin.

Breathing protection:

- Breathing protection is recommended.
- Filter P2.

Hand protection:

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

Glove material

- Use gloves made from stable materials (e.g. nitrile).
- The selection of a suitable glove depends not only on the material, but also on other quality properties, which may vary from manufacturer to manufacturer.

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Concrete and Screed Technology

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: tightly sealed protective goggles.

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.