FLOOR HARDENER BH 400

> excellent wear resistance
> ready-to-use
> good impact resistance
> colour-fast
> economical surface coating

Product description

Murexin BH 400 is a ready-to-use hard grain spread of abrasion class A3, consisting of special, natural hard materials, Portland cement and dispersing agents for concrete and screed floors. The inorganic pigments are resistant to cement, alkali, light and guarantee long-lasting colour fastness of the floor. The dispersing agents ensure uniform processability.
Suitable for indoor and outdoor use. Application as a surface finish with medium-heavy load for: concrete pavements, roller skating rinks, sports fields, terraces, roadways, exhibition halls, offices, garages, car parks, factory halls, supermarkets, shops, workshops, etc. The spread product moistens itself completely by absorbing water from the concrete or screed mixture, thus forming an extremely dense and compact coloured surface. The product is characterised by low cost per m², high abrasion resistance, high impact resistance, high surface density, low absorption of oil and grease and better cleanability.

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
Spreader, trowel, finishing trowel, screed smoother, trowel, rotating smoother.

Mixing
Floor Hardener BH 400 is ready to use and does not need to be mixed.

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Processing
Floor Hardener BH 400 is applied and distributed uniformly on the concrete or screed surface manually or mechanically. Application is preferably carried out in two successive work steps. The first layer (approx. 2/3 of the quantity) is applied to the fresh concrete or screed, which can already be walked on (wet-on-wet processing). As soon as the applied material is moist (dark colouration due to absorption of water from the underlying concrete or screed), the last third of Floor Hardener BH 400 is applied and the smoothing process is carried out using a finishing trowel or a power trowel until the desired surface is achieved. If necessary, smooth the edges manually.

Post-treatment
Protect the concrete with BH 400 Floor Hardener from uncontrolled water extraction for approx. 1-2 hours after processing by laying a PE film or using Murexin evaporation protection.

Technical data

Chemical base	cements, additives and admixtures
Consumption	3 - 5 kg/m² - depending on the application method and the concrete or screed
Layer thickness	2 - 3 mm
Certificates/test reports/class achieved	EN 13813
Compressive strength	(28d) approx. 80 N/mm²
Fire class	Euroclass A1
Processing temperature	min. +5 °C / max. +30 °C
Abrasive wear according to ÖNORM 3126-2 (Böhme dry)	< 3 cm³ / 50 cm² (Object-specific abrasion value varies depending on the quality of the locally used binding agent and/or aggregate.)

Test certificates

Tested in accordance with (standard, classification ...)
Abrasive wear according to Böhme

Substrate

Suitable substrates
BH 400 can be applied to fresh concrete surfaces and screeds.
The W/B value should not be too low in order to have water available for moistening Floor Hardener BH 400.
Floor Hardener BH 400 cannot be used on aerated concretes (risk of detachment due to air pockets under the wearing course and spalling).

Product and processing instructions

Material information:
- The properties of the material may be significantly altered if it is not processed within the recommended temperature and/or humidity range.
- Bring materials up to corresponding temperature before processing!
- To maintain the product properties, do not add any foreign materials!

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- The water dosing quantities or dilution information must be strictly adhered to!
- Check the colour accuracy of coloured products before use!
- Colour consistency can only be guaranteed within a batch.
- Environmental conditions have a significant influence on the colouration.
- Material that has been mixed and is already starting to stiffen must not be diluted further or mixed with fresh material!

Environmental information:
- Do not process at temperatures below + 5 °C!
- The ideal temperature range for material, substrate and air is +15 °C to +25 °C.
- The ideal relative air humidity range is between 40% to 60%.
- Increased humidity and/or lower temperatures delay, lower air humidity and/or higher temperatures accelerate drying, setting and hardening.
- Ensure sufficient ventilation during the drying, reaction and hardening phase; avoid draughts!
- Protect from 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.- Observe the product data sheets of all MUREXIN products used in the system.
- Keep a genuine original container of the respective batch for later repair work.
- For heated screeds, a standard heating procedure must take place before laying.
- The underfloor heating system may not be switched on during the 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 batches may vary slightly without impacting the product suitability.

Safety instructions

Product-specific information regarding composition, handling, cleaning, appropriate measures and disposal can be found in the safety data sheet.

Limiting and monitoring exposure
Personal protective equipment:
General protective and hygienic measures:
- Keep away from foodstuffs, beverages and animal feedstuffs.
- Immediately remove contaminated, soaked clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with eyes and skin.

Breathing protection:
- In case of insufficient ventilation use breathing protection.
- Filter P2.

Hand protection:
- protective gloves.
- The glove material must be impermeable and resistant to the product / substance / preparation.

Glove material
- Use gloves made of stable material (e.g. nitrile).
- The selection of a suitable glove not only depends on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

Penetration time of the glove material
- The exact penetration time must be obtained from the protective glove manufacturer and must be adhered to.

Eye protection: Tightly sealed protective goggles.
Body protection: Protective work 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.

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