



SCHÖNOX® HS 40 S

Superfine, sturdy, all purpose hybrid repairing mortar

Combines the advantages of a low tension calciumsulphate based leveling compound with the fast drying of cementitious systems. Contains the innovative Hybrid Active Dry Technology. Extendable to feather finish and very easy to handle.



Product characteristics

- RAL UZ 113: Environment-friendly, because very low-emission
- EMICODE EC 1^{PLUS}: very low emission
- quickly ready for covering through high water binding capacity
- easy to mix, no direct thickening after mixing
- no bonding to the trowel
- for interior use
- very sturdy
- superfine
- easy to grind
- able to shape
- high level of hardness and strength
- very smooth application
- suitable for application on subfloor heating systems
- synthetic resin-modified
- low consumption / high coverage
- layer-thickness 0 to 20 mm without aggregates
- layer-thickness 10 to 40 mm with aggregates
- low tension/stress
- free of cracks even in thicker layers
- suitable for castor wheels loading with layer-thickness more than 1,0 mm according to EN 12 529
- very smooth, low-pore surface

Applications

SCHÖNOX HS 40 S is suitable for patching, filling, repairing and levelling:

- of staircase steps and platforms
- wall breakouts
- as a levelling compound to level out differences in height to neighboring areas
- as a repairing mortar for filling holes and deepenings

Substrates

SCHÖNOX HS 40 S is suitable to be used on interior substrates like e.g.:

- calcium sulphate based screeds
- mastic asphalt screeds

- concrete
- cement and rapid cement screeds
- old substrates such as ceramic tiles, natural stones and terrazzo
- old substrates with old water-resistant adhesive residues
- magnesia screeds
- wooden substrates

Requirements of substrate

- Adequate strength, load bearing capacity, dimensional stability and permanent dryness.
- Free of residues which reduce adhesion, e.g. dust, dirt, oil, fat and loose particles.
- Separation layers, sinter layers, and other similar contamination should be removed through appropriate measures, such as sanding, brushing, abrasive blast cleaning, milling or thorough cleaning.
- Old, loose and weak levelling layers should be removed mechanically.
- With subsequent installation of floor coverings, cement screeds are required to display a residual moisture reading of ≤ 2.0 CM-% (heating screeds ≤ 1.8 CM-%), calcium sulphate screeds should have a reading of ≤ 0.5 CM-% (heating screeds ≤ 0.3 CM-%).
- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed. Remaining adhesive residues should be primed with SCHÖNOX HP RAPID.
- Old water-resistant adhesives are to be mechanically removed as far as possible.
- Old floors, such as ceramic tiles are to be thoroughly cleaned and sanded.
- OSB is to be grinded intensively.
- Rooms in buildings without a basement, are to be sealed against rising dampness in compliance with the standard.

Technical data

- Pot life: approx. 15 minutes at 20 °C
- Ready for foot traffic: after approx. 30 minutes
- Ready to level over: after appr. 30 minutes
- Ready for covering: after approx. 4 hours
- Application temperature: not below 5 °C floor temperature
- Material consumption: approx. 1,4 kg/m²/mm
- Reaction to fire: A1 / A1_{f1}

All values are approximate and are subject to climatic fluctuations.

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Priming

- **calcium sulphate substrates such as:**
 - calcium sulphate screeds
 - prime with SCHÖNOX VD (1:1) or SCHÖNOX KH FIX (Further treatment direct after applying).
- **normal absorbent substrates such as:**
 - cement screeds
 - rapid cement screeds
 - concrete
 - prime with SCHÖNOX VD (1:3) or SCHÖNOX KH FIX.
- **non-absorbent, smooth, sound substrates such as:**
 - mastic asphalt screeds, insufficient sanded
 - ceramic tiles (thoroughly cleaned and abraded)
 - water-resistant adhesive residues (removed as far as possible)
 - prime with SCHÖNOX SHP or SCHÖNOX VD (neat).
- **Wooden substrates like e.g.:**
 - stable laid wooden planks
 - Chipboard or OSB
 - protect against moisture with SCHÖNOX VD (neat)(drying time 2 hours).
- **xylolite screeds:**
 - prime with SCHÖNOX HP RAPID.
- **magnesia screeds (not xylolite):**
 - prime with SCHÖNOX SHP.

Mixing ratio

- For 20,0 kg SCHÖNOX HS 40 S approx. 5,0 l water

Extended levelling compound:

The additive is added last.

Layer thickness of 10 to 30 mm:

Bulking material approx. 65 wt.% corresponds to 12,5 kg or 8 l of SCHÖNOX QUARZSAND 0,1 - 3,0 mm for 20,0 kg SCHÖNOX HS 40 S.

Layer thickness of 20 to 40 mm:

Bulking material approx. 100 wt.% corresponds to 20,0 kg clean screed sand (grain size 0 - 8 mm) for 20,0 kg SCHÖNOX HS 40 S.

Recommended method of working

- The ideal working temperature is 15 °C floor temperature, 18 °C air temperature, ≤ 65 relative humidity.
- Using a clean receptacle, add SCHÖNOX HS 40 S to cold clean water to form a homogeneous mixture. Use of a mixer with a spiral mixer is recommended.
- Spread, smooth and model the levelling compound with a smoothing trowel or spatula.
- Do not mix more material than can be handled within 15 minutes.
- After becoming touch dry resp. brightening of the surface e.g. a self levelling compound can not be applied before achieving readiness for laying. Priming with SCHÖNOX VD FIX or SCHÖNOX VD (1 : 1) is necessary.
- Protect curing SCHÖNOX HS 40 S levelling layers from high ambient temperatures, direct sunlight and draughts.
- Clean tools in water immediately after use.

Packaging

- 20,0 kg paper sack with handle

Storage

- Store SCHÖNOX HS 40 S in cool, dry conditions.
- Storage life of 1 year (in closed packaging).
- Opened packages should be closed immediately and used up as soon as possible.

Disposal

- Empty packaging completely and dispose of in accordance with regulations
- Package is announced to a package recycling-system. Please, take in completely emptied package to the recycling-system.
- For the disposal of product residues, waste water and containers with adherent product residues please follow the local governmental regulations.
- Do not empty into drains, waters or soil.

EMICODE

- EC 1^{PLUS}: very low emission

GISCODE

- CP3 - levelling compounds based on calcium sulphate, calcium oxide content > 3%

EPD - Self-declaration

Sika Deutschland GmbH declares that the product fulfills the criteria for modified mineral mortars of group 1.

ENVIRONMENTAL PRODUCT DECLARATION

acc. to ISO 14025 and EN 15804

Owner of declaration

FEICA - Association of the European Adhesive and Sealant Industry

Editor

Institut für Bauen und Umwelt e.V. (IBU)

Program owner

Institut für Bauen und Umwelt e.V. (IBU)

Number of declaration

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Valid until

22.05.2021

Instructions

- All information applies to standard conditions and relates to the non-extended levelling compound.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- The requirements of the relevant valid standards, guidelines and data sheets apply.
- Composition:
 - Calcium sulphate
 - Cement (Chromate reduced)
 - Redispersed copolymer powder
 - Mineral fillers
 - Additives
- Keep out of the reach of children.
- Insure a good ventilation during application and drying.

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- Avoid eating, drinking and smoking while working with the product.
- Wear suitable protective goggles.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Protect your hands with waterproof, robust gloves.
- Wear long trousers.
- In case of contact with skin, rinse immediately with plenty of water.
- The longer fresh adhesive or laying materials remain on skin, the greater the risk of serious skin damage.
- Keep away children from fresh adhesive and laying material.

The applicable recommendations, guidelines, DIN regulations and safety data sheets are to be observed, together with the recognised architectural and engineering regulations. We guarantee that our products leave the factory in perfect condition. While our recommendations for use are based on tests and practical experience, they can only provide general guidance without any assurance as to product characteristics, since we have no influence over the conditions on site, the execution of the work or the method of processing. This product data sheet supersedes all previous editions.



The Sika management system is certified to ISO 9001 and 14001 by SQS

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