

Cementitious rapid screed binder

Rapid screed binder to mix with screeding sand (0-8 mm) for the preparation of cementitious rapid screeds with hardness classes CT F4 up to F6 according EN 13 813. For interior and exterior use.

Product characteristics

- EMICODE EC 1^{PLUS} R: very low emission, regulated
- for interior and exterior use
- suitable for wet areas
- frost resistant
- pumpable
- easy to apply, no bonding to the tool
- rapid hardening with long working time
- short time to be ready for covering
- low tension/stress
- suitable in combination with underfloor heating systems
- high strength values
- low in chromate according to REACH

Applications

SCHÖNOX SEB is suitable for preparation of:

- bonded screeds and floating screeds on insulation material or separating layer according to DIN 18 353 and DIN 18 560
- heated screeds
- screeds with subsequent cold-curing resin coating
- screeds on balconies and terraces
- screeds in wet areas (moisture loading classes A0, B0, A, B, C)
- screed completions, ready for covering in short time
- repairing of rapid-setting screeds for interior and exterior areas, mixed with suitable aggregates

Requirements of substrate

General:

- Adequate strength, load bearing capacity, dimensional stability and permanent dryness.
- Subfloors with expected raising damp should be protected in compliance with the standard.

Bonded screeds:

- Free of residues which reduce adhesion, e.g. dust, dirt, oil, fat and loose particles.
- Surface treatments or any "friable" areas of the subfloor must be mechanically removed and the subfloor repaired with SCHÖNOX levelling compounds as required.
- Prime the substrate using SCHÖNOX KH (1:5) or SCHÖNOX VD (1:5).
- Then apply SCHÖNOX DSP as a bonding slurry.
- Alternatively, for small-scale repairs apply a bonding slurry coated with SCHÖNOX KH or SCHÖNOX VD (25 kg SCHÖNOX SEB + 2.0 kg SCHÖNOX KH/SCHÖNOX VD + 12,0 l water).
- Apply the screed into the still wet bonding slurry.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

Material consumption

- **SCHÖNOX SEB MR 1 : 6**
per cm thickness of the screed 2,9 kg/m²
per m³ screed mortar 290 kg
- **SCHÖNOX SEB MR 1 : 5**
per cm thickness of the screed 3,4 kg/m²
per m³ screed mortar 340 kg
- **SCHÖNOX SEB MR 1 : 4**
per cm thickness of the screed 4,0 kg/m²
per m³ screed mortar 400 kg

Mixing ratio

SCHÖNOX SEB/aggregate 1:6; class CT F4
SCHÖNOX SEB/aggregate 1:5; class CT F5
SCHÖNOX SEB/aggregate 1:4; class CT F6

For one mixture in a 200 l mixer:

- **MR 1 : 6**
SCHÖNOX SEB 50 kg
screed sand 0 to 8 mm 300 kg
water up to 22,5 l
- **MR 1 : 5**

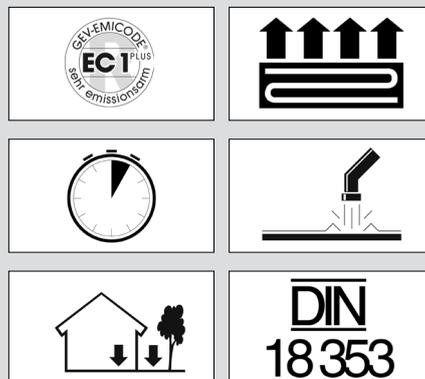
Technical data

- Basis: rapid cement
- Working time: appr. 60 min. at +20 °C
- Ready for foot traffic: after approx. 6 hours
- Ready for covering:
 - for ceramic tiles after approx 3 days (up to 50 mm thickness). Residual moisture ≤ 3,0 CM-%.
 - for diffusion permeable, textile coverings after approx 3 days (up to 50 mm thickness). Residual moisture ≤ 3,0 CM-%.
 - for vapour retarding textile coverings, elastic coverings, parquet and cold curing resin coatings after approx 7 days (up to 50 mm thickness). Residual moisture ≤ 2,0 CM-%.
 - for heated screeds according to EN 12648 ≤ 1,8 CM-% for all kinds of coverings

Measuring with CM apparatus, see method of working

- Application temperature: +5 °C to +30 °C
- Temperature resistance: with underfloor heating up to 65 °C supply temperature

All values are approximate and are subject to climatic fluctuations.



SCHÖNOX SEB 62,5 kg
screed sand 0 to 8 mm 315 kg
water up to 28 l

■ MR 1 : 4

SCHÖNOX SEB 75 kg
screed sand 0 to 8 mm 300 kg
water up to 34 l

Recommended method of working

- Mix SCHÖNOX SEB using screed mixer or force mixer with screed sand 0 to 8 mm (according to DIN 4226, grain size between A8 and B8) and cold, clean water to form a homogeneous mixture. Adjust a stiff-plastic consistency. The needed mixture ratio SCHÖNOX SEB to screed sand depends to the requirements.
- Deliver, distribute, compact and smooth SCHÖNOX SEB quickly. We recommend an automatic smoothing. Only mix as much mortar as can be worked within approx. 60 minutes.
- Edge and movement joints should be taken over.
- Readiness for covering must be guaranteed by testing residual moisture with CM-apparatus. The sampling takes place over the whole cross section. Original sample weight 50 g. Shake the sample for 1 minute and read off the final value after further 4 minutes.
- Protect curing SCHÖNOX SEB rapid-screed layers from high ambient temperatures, direct sunlight and draughts.
- Heating screeds according to DIN EN 1264 start to warm up after 7 days. Therefore hold 3 days a flow temperature of 25 °C and afterwards the maximum flow temperature (max. 65 °C) for 4 days. Subsequent warm down the screed until up to the cooling-off (protect for draught and rapid cooling-off). Lay floor coverings up to 18 °C surface temperature (corresponds to a flow temperature of 20 to 25 °C - depending on surrounding temperature).
- With heating screeds we recommend to follow the guideline "Schnittstellenkoordination bei beheizten Fußbodenkonstruktionen" from Bundesverband Flächenheizung e.V.

- Immediately after use clean tools with water.

Packaging

- 25.0 kg paper sack

Storage

- Store SCHÖNOX SEB in cool, dry conditions.
- Storage life of 6 months (in closed packaging).
- Opened bags should be closed immediately and used up as soon as possible.

Disposal

- Empty packaging of all trickles and dispose of in accordance with the regulations.
- For the disposal of product residues, waste water and containers with adherent product residues please follow the local governmental regulations.

EMICODE

- EC 1^{PLUS} R: very low emission, regulated

GISCODE

- ZP1 - cement products, low in chromate

EPD - Self-declaration

SCHÖNOX GmbH declares as a statutory member of Deutsche Bauchemie and Industrieverband Klebstoffe that the product fulfills the criteria for modified mineral mortars of group 2.

ENVIRONMENTAL PRODUCT DECLARATION

acc. to ISO 14025 and EN 15804

Owner of declaration

Deutsche Bauchemie e.V.
Industrieverband Klebstoffe e.V.
Verband der deutschen Lack- und Druckfarbenindustrie e.V.

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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Date of issue

30.07.2013

Valid until

29.07.2018

Instructions

- SCHÖNOX SEB contains cement. Alkaline reaction when it comes in contact with moisture, therefore protect skin, eyes and respiratory system. Do not breathe in dust. In case of contact rinse immediately with plenty of water. In case of contact with eyes seek additional medical advice.
- High humidity, low temperatures and high thickness will retard, whilst high temperatures will accelerate the setting and readiness for covering.
- The application of reinforcement (e.g. mixing with AR-glass fibres) is possible. Obtain the requirements of the manufacturer.
- Mix SCHÖNOX SEB only with the mentioned materials. Do not mix with cements or other chemical additives.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.

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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