

Cement based self-levelling compound

Product characteristics

- EMICODE EC 1^{PLUS} R: very low emission, regulated
- for interior use
- self-levelling
- low tension/stress
- pumpable
- extendable without loss of strength for higher layer thickness
- suitable for application on subfloor heating systems
- low construction heights are possible
- high strength values
- water-proof against dispersion adhesives
- layer-thickness 3,0 to 40 mm without aggregates
- layer-thickness 10 to 60 mm with aggregates
- low in chromate according to REACH

Applications

SCHÖNOX US is suitable for preparation of bonded screeds in layer thicknesses of 3 - 60 mm in:

- new and old buildings
- renovation work
- modernisation work

SCHÖNOX US is suitable for:

- textile coverings
- elastic coverings
- parquet, layer thickness at least 5 mm
- in interior areas.

Substrates

SCHÖNOX US is suitable on:

- concrete
- cement and rapid cement screeds
- calcium sulphate based screeds
- mastic asphalt screeds (sanded) IC 10 and IC 15 according to EN 13 813, layer-thickness 3,0 to 8,0 mm
- Old mastic asphalt screeds IC 10 and IC 15 (if necessary, obtain advice on the hardness class test in an asphalt laboratory) according to EN 13

813, often contain cracks or are embrittled, depending on their composition, age, strength and use. This renovation substrate does not display sufficient load-bearing strength for taking even a low-stress, cementitious levelling compounds. For this purpose, we recommend using stress-free, gypsum SCHÖNOX-levelling compound. If in doubt, please obtain supplementary information.

- magnesia screeds with mineral aggregates
- old substrates such as ceramic tiles, natural stones and terrazzo

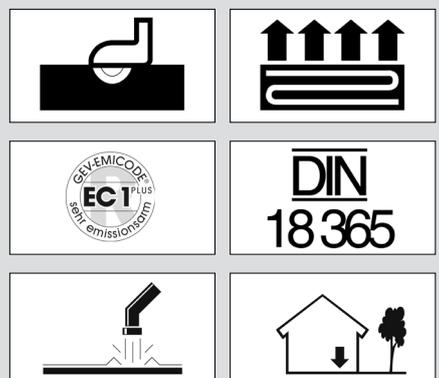
Requirements of substrate

- 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 EG.
- Old water-resistant adhesives are to be mechanically removed as thoroughly as possible.
- Old floors, such as ceramic tiles are to be thoroughly cleaned and sanded.

Technical data

- Pot life: approx. 40 minutes at 20 °C
- Ready for foot traffic: after approx. 4 hours
- Ready for covering:
 - up to 5 mm after approx. 24 hours for all kinds of coverings
 - up to 10 mm after approx. 3 days for all kinds of coverings
 - from 10 mm measuring of residual moisture with CM-apparatus necessary. Net weight 50 g, meter reading time 10 min., target value $\leq 2,0$ CM-%.
- Application temperature: not below 5 °C floor temperature
- Material consumption: approx. 1,8 kg/m²/mm
- Reaction to fire: A1 / A1_{f1}

All values are approximate and are subject to climatic fluctuations.



- Rooms in buildings without a basement, are to be sealed against rising dampness in compliance with the standard.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

Priming

■ normal absorbent substrates such as:

- cement screeds
 - rapid cement screeds
 - concrete
- prime with SCHÖNOX VD (1:3) or SCHÖNOX VD FIX.

■ non-absorbent, smooth, sound substrates such as:

- mastic asphalt screeds, insufficient sanded
 - old water-resistant adhesive residues, almost completely removed
 - ceramic tiles
- prime with SCHÖNOX SHP or SCHÖNOX VD (neat).

■ calcium sulphate substrates such as:

- calcium sulphate screeds
- prime with SCHÖNOX VD FIX (drying time 60 minutes) or SCHÖNOX VD (1:1 / drying time at least 24 hours). We recommend a two-coat sub-coat of SCHÖNOX EG for layer-thickness exceeding 10 mm.

■ magnesia screeds (not xylolite):

- prime with SCHÖNOX SHP.

Mixing ratio

- For 25,0 kg SCHÖNOX US approx. 4,5 l water

Extended levelling compound:

The additive is added last.

Layer thickness of 10 to 60 mm:

Bulking material approx. 65 wt.% corresponds to 16,0 kg or 10 l of SCHÖNOX QUARZSAND 0,1 - 3,0 mm for 25,0 kg SCHÖNOX US

Recommended method of working

- Using a clean receptacle, add SCHÖNOX US to cold clean water to form a homogeneous mixture. Use of a disc stirring rod or a pump like Putzmeister MP 20 / 25, Berö TINO, Wagner T 25 und PC

25, PFT G 4 oder G 5 or other suitable pumps, is recommended. In case of interruption of work pump and hoses necessarily should be cleaned immediately

- Spread SCHÖNOX US using a suitable tool (surface blade) and ventilate using a spike roller.
- Edge and movement joints should be taken over.
- In the case of higher layer-thickness, contact with vertical structures should be avoided by putting in an perimeter isolating strip.
- Carry out preparatory work - such as filling joints, evening out hollows and unevenness - using the sturdy repair mortar SCHÖNOX RR.
- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with SCHÖNOX VD (1:1) or SCHÖNOX VD FIX when dry. The maximum layer thickness may not be exceeded in case of two-layer application. The second layer may not exceed the layer thickness of the first.
- Protect curing SCHÖNOX US levelling layers from high ambient temperatures, direct sunlight and draughts.
- Contact to metal like water-bearing pipes must be avoided (e.g. sealing of pipe penetrations), because especially galvanised steel pipes have no sufficient corrosion protection.
- Immediately after use clean tools with water.

Packaging

- 25.0 kg paper sack

Storage

- Store SCHÖNOX US in cool, dry conditions.
- Storage life of 6 months.
- Opened packages should be closed immediately and used up as soon as possible.

Disposal

- Empty packaging completely and dispose of in accordance with 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 1.

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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Valid until

29.07.2018

Instructions

- All information applies to standard conditions and relates to the non-extended levelling compound.
- SCHÖNOX US 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.

- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- The BEB-leaflet "Beurteilen und Vorbereiten von Untergründen; Verlegen von elastischen und textilen Bodenbelägen, Schichtstoffelementen (Laminat), Parkett und Holzpflaster; Beheizte und unbeheizte Fußbodenkonstruktionen" should be followed.

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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