

SCHÖNOX® RENOTEX 3D System



Thin-layer screed system for highest demands

The 3-dimensional fabric SCHÖNOX RENOTEX 3D in combination with the levelling compound SCHÖNOX HS 50 allows extremely thin-layer screed solutions. Including impact sound insulation, layer thicknesses from 26 mm can be realized. Therefore a highly interesting alternative to dry screeds or where the load-bearing capacity does not permit conventional screed.



Product characteristics

SCHÖNOX RENOTEX 3D

- low construction height
- high impact sound improvement achievable
- On insulation layers single loads of up to 4,0 kN and surface loads of up to 5 kN/m²
- minimal mass per m²

SCHÖNOX HS 50

- low tension/stress
- EMICODE EC 1^{PLUS}: very low emission
- RAL UZ 113: Environment-friendly, because very low-emission
- quickly ready for covering through high water binding capacity
- fast development of strength
- pumpable
- self-levelling
- suitable for application on subfloor heating systems
- free of cracks even in thicker layers
- ready for laying after approx. 48 hours
- low construction heights are possible
- heavy mechanical load capacity
- high strength values
- suitable for castor wheels in accordance with EN 12 529
- for interior use

Applications

SCHÖNOX RENOTEX 3D System is suitable for the construction of floating screeds in:

- new and old buildings
- renovation work
- modernisation work

Ideal in combination with mineral wool (e.g. Isover Akustic EP 3) to improve the impact sound insulation.

SCHÖNOX RENOTEX 3D System is suitable:

- under textile and elastic coverings
- under multi layer parquet

- under solid parquet (Obtain special information)
- for full-surface levelling under sealings and coatings
- for reconstruction and renovation, wherever, there an additional uncoupling is necessary in interior areas.

Substrates

SCHÖNOX RENOTEX 3D System is suitable on:

- concrete
- cement and rapid cement screeds
- calcium sulphate based screeds
- mastic asphalt screeds
- magnesia screeds with mineral aggregates
- wood planks
- Foil membranes
- old particle board floors, not sufficient dimensional stable
- Old substrates

Requirements of substrate

- Adequate strength, evenness, dimensional stability and dryness.
- Separate SCHÖNOX RENOTEX 3D System from the vertical structure by installing the edge strip SCHÖNOX RS 50 or SCHÖNOX NIVELLIERRANDSTREIFEN.
- The thickness of the edge strip must be adapted to the size of the area.
- 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-%).
- 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.

Technical data

SCHÖNOX RENOTEX 3D System

- Reaction to fire: A2_{fl}-s1*
 - Acoustic improvement according to EN 140-8 (without covering):
- 21 db with a construction height of 26 mm*
- *in combination with Isover Akustic EP 3

SCHÖNOX HS 50

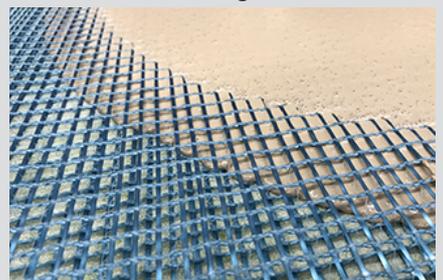
- Pot life: approx. 30 minutes at 18 °C
- Ready for foot traffic: after approx. 2 - 3 hours
- Ready for covering:¹
- up to 50 mm after approx. 48 hours, residual-moisture $\leq 3,0$ CM-%
- Application temperature: not below 5 °C floor temperature
- Material consumption: approx. 1,8 kg/m²/mm
- Strength class: CA-C35-F10
- Reaction to fire: A1 / A1_{fl}

SCHÖNOX RENOTEX 3D

- roll length: 25 m
- roll width: 2 m
- roll weight: approx. 30 kg

¹with 18 °C and 65 % rel. humidity, temperature of substrate ≥ 15 °C

Especially if fast laying on SCHÖNOX RENOTEX 3D System is desired, take fully respect to the recommended climate conditions. Low temperatures and high relative humidity decelerate an early readiness for covering.



SCHÖNOX® RENOTEX 3D System

Mixing ratio

- For 25,0 kg SCHÖNOX HS 50 approx. 4,25 l water

Recommended method of working

- Carry out preparatory work - such as filling joints, evening out hollows and unevenness - using the sturdy repair mortar SCHÖNOX HS 40 S, SCHÖNOX RM or SCHÖNOX RR.
- Lay a protection foil underneath SCHÖNOX RENOTEX 3D System, if laid on existing coverings which should be sustained.
- If required lay-out, mineral wool, dynamic stiffness $\geq 40 \text{ MN/m}^3$, in a thickness of max. 20 mm acc. to the manufacturer's instructions.
- Without insulation, lay out a foil of approx. 100 μ for decoupling.
- Place edge trim SCHÖNOX RS 50 to all rising components of the insulation.
- Determine the number of lanes according to the room size.
- From the first track to the wall, cut off the overlap area. Possibly. Cut more generously to avoid a very narrow last track.
- Adhere ends with SCHÖNOX SLK, when necessary.
- Keep at least 10 mm distance to the edge strip.
- Jointless surfaces up to 10 m edge length possible.
- Using a clean receptacle, add SCHÖNOX HS 50 to cold clean water to form a homogeneous mixture. Use of a disc stirring rod or a pump like inotec or other suitable pumps, is recommended. In case of interruption of work pump and hoses necessarily should be cleaned immediately.
- Do not pour material against the overlap area to prevent it from flooding.
- Layer thickness min. 14 mm. For areas with single loads $>3,0$ up to 4,0 kN or distributed loads >4 up to 5 kN/m² min. 18 - 20 mm.
- Readiness for covering must be guaranteed by testing residual moisture with CM-apparatus. The sampling takes place over the whole cross section. Ori-

ginal sample weight 50 g. Shake the sample for 1 minute and read off the final value after further 4 minutes.

- 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 KH 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 HS 50 levelling layers from high ambient temperatures, direct sunlight and draughts.
- If grinding of SCHÖNOX HS 50 after drying is necessary, use a paper or net with grit-size ≥ 80 .
- 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.
- Clean tools in water immediately after use.

Packaging

- 25 m roll

Storage

- Store SCHÖNOX RENOTEX 3D System powder component 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
- For the disposal of product residues, waste water and containers with adherent product residues please follow the local governmental regulations.
- Cuttings can be disposed of as construction waste.
- 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

EPD-FEI-20160017-IBG1-EN

Date of issue

23.05.2016

Valid until

22.05.2021

Instructions

- For cutting SCHÖNOX RENOTEX 3D it is recommended using cordless electrical scissors.
- All information applies to standard conditions and relates to the non-extended levelling compound.
- The TKB-data sheet "Technische Beschreibung und Verarbeitung von Bodenspachtelmassen" should be followed.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.

SCHÖNOX HS 50

- Composition:
 - Calcium sulphate
 - Mineral fillers
 - Cement (Chromate reduced)
 - Redispersed copolymer powder
 - Additives
- Keep out of the reach of children.

SCHÖNOX® RENOTEX 3D System

- Insure a good ventilation during application and drying.
- Avoid eating, drinking and smoking while working with the product.
- Wear suitable protective goggles.
- In case of contact with skin, rinse immediately with plenty of water.
- 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.
- 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

Sika Deutschland GmbH
Subsidiary Rosendahl
P.O. Box 11 40
D-48713 Rosendahl / Germany
Phone +49 (0) 2547-910-0
Fax +49 (0) 2547-910-101
E-mail: info@schoenox.de
www.schoenox.com