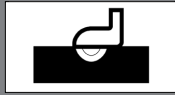
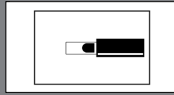


SCHÖNOX LEICHTESTRICH SYSTEM



Rapid setting hybrid lightweight screed system

for the creation of screed surfaces ready for early covering with a low weight per unit area. The solution on substrates, where a conventional screed is not possible for structural reasons. The system of hybrid lightweight screed, special fabric and hybrid levelling compound is suitable for residential and commercial areas and is ready for installation after just 48 hours.



Product characteristics

- EMICODE EC 1^{PLUS}: very low emission
- for single loads up to 4,0 kN and distributed loads up to 5,0 kN/m²
- very low weight per unit area
- especially suitable for renovation work
- low construction height
- short time to be ready for covering
- for any layer thickness
- easy to apply, no bonding to the tool
- rapid hardening
- low tension/stress
- for interior use
- after approx. 6 hours ready for covering for ceramic tiles with SCHÖNOX Q20 HYBRID

Applications

SCHÖNOX LEICHTESTRICH SYSTEM is suitable for preparation of:

- bonded screeds and screeds on separating layer on suitable substrates in interior areas.
- SCHÖNOX LEICHTESTRICH SYSTEM is suitable for all types of coverings.
- If it is planned to install solid parquet, obtain special information.
- For the laying of ceramic tiles on SCHÖNOX HS 50 use SCHÖNOX Q20 Hybrid.

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.
- The substructure of wooden floors should be permanently dry to avoid damages from moisture, deformation, rotteness, mildew and so on. Take care for an adequate ventilation through edge strips and space.

- The requirements of the relevant valid standards, guidelines and data sheets apply.

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 leveling compounds as required.
- Pre-treat moisture-sensitive substrates with SCHÖNOX VD or SCHÖNOX HP RAPID, depending on the existing substrate (observe drying times).

Material consumption

■ Layer thickness SCHÖNOX LEICHTESTRICH SYSTEM 31 mm:

(25 mm light weight screed + 6 mm base layer)	
SCHÖNOX LEB	ca. 4,63 kg/m ²
SCHÖNOX LEF	ca. 4,13 kg/m ²
SCHÖNOX PZG	ca. 1,05 m ² /m ²
SCHÖNOX HS 40 S*	ca. 0,25 kg/m ²
SCHÖNOX HS 50	ca. 19,00 kg/m ²
Weight per unit area (dry) approx.	32 kg/m ²

■ Layer thickness SCHÖNOX LEICHTESTRICH SYSTEM 46 mm:

(40 mm light weight screed + 6 mm base layer)	
SCHÖNOX LEB	ca. 7,40 kg/m ²
SCHÖNOX LEF	ca. 6,60 kg/m ²
SCHÖNOX PZG	ca. 1,05 m ² /m ²
SCHÖNOX HS 40 S*	ca. 0,25 kg/m ²
SCHÖNOX HS 50	ca. 19,00 kg/m ²
Weight per unit area (dry) approx.	38 kg/m ²

Mixing ratio

- for 10 kg SCHÖNOX LEB 3,25 l water + 9 kg SCHÖNOX LEF

Technical data

- Basis: special binder, additives, special lightweight aggregate
- Ready for foot traffic: after approx. 2 bis 3 hours
- Ready for covering: after approx. 48 hours
- Ready for covering: after approx. 6 hours for ceramic tiles with SCHÖNOX Q20 HYBRID
- Working time: appr. 45 min. at +20 °C
- Application temperature: +5 °C to +30 °C
- Material consumption: ca. 3,5 kg/m² per cm
- Reaction to fire: A1 / A1_{fl}
- Bulk density (light weight screed component): 0,4 kg/dm³
- Thermal conductivity: 0,111 W/mK
- System components: SCHÖNOX LEB
SCHÖNOX LEF
SCHÖNOX PZG
SCHÖNOX HS 40 S
SCHÖNOX HS 50

SCHÖNOX Q20 HYBRID (Tile range)

*In combination with ceramics and natural stones, replace SCHÖNOX HS 40 S with SCHÖNOX Q20 HYBRID.

All values are approximate and are subject to climatic fluctuations.



SCHÖNOX LEICHTESTRICH SYSTEM

Recommended method of working

- Insure a good ventilation during application and hardening of SCHÖNOX LEICHTESTRICH SYSTEM.
- Jointless surfaces up to 15 m edge length possible.
- Mix the special binder SCHÖNOX LEB with 3,25 l cold, clean water for approx. 60 seconds.
- Add the homogenous mixture of SCHÖNOX LEB while mixer is running to the SCHÖNOX LEF and mix for a further 120 seconds.
- Draw off the mortar using gauges and compact well after approx. 5 - 10 minutes using a smoothing trowel.
- Edge and construction joints are to be adopted.
- The minimum layer-thickness as bonded screeds is 15 mm.
- The minimum layer-thickness on separating layers is 25 mm.
- After accessibility, lay out SCHÖNOX PZG with an overlap of at least 5 cm and fix with SCHÖNOX HS 40 S or SCHÖNOX Q20 HYBRID at specific points.
- After approx. 90 minutes apply SCHÖNOX HS 50 in a layer thickness of at least 6 mm at the highest point over SCHÖNOX PZG.
- Depending on the evenness and degree of compaction of the lightweight screed, the material requirement is at least 19 kg/m² SCHÖNOX HS 50.
- Fine levelling may be necessary before laying resilient and textile coverings.
- Protect curing SCHÖNOX LEICHTESTRICH SYSTEM layers from high ambient temperatures, direct sunlight and draughts.
- Clean tools in water immediately after use.
- Supplementary information and a detailed description can be found in the brochure "SCHÖNOX LEICHTESTRICH SYSTEM".
- For use in wet areas, ask for special advice.

Packaging

- SCHÖNOX LEB 10 kg paper bag
- SCHÖNOX LEF 9 kg paper bag

- SCHÖNOX PZG 25 m roll (25 m²)
- SCHÖNOX HS 40 S 20 kg paper bag
- SCHÖNOX HS 50 25 kg paper bag
- SCHÖNOX Q20 HYBRID 25 kg paper bag

Storage

- Store SCHÖNOX LEICHTESTRICH SYSTEM 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 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}: very low emission

GISCODE

Powder component:

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

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- Mix SCHÖNOX LEICHTESTRICH SYSTEM only with the mentioned materials. Do not mix with cements or other chemical additives.
- Installations on the SCHÖNOX LEICHTESTRICH SYSTEM are to be anchored in the load-bearing substructure.
- When planning the space, joints for sound insulation reasons (e.g. in doorways) must be taken into account, regardless of the possible edge length.
- Ceramic tiles as well as natural stones should be suitable for the respective stresses see ZDB-leaflet „Groß,-Megaformate“.
- Please follow the relevant product data sheets when using complementary

products. If in doubt, we recommend obtaining further information from the manufacturer.

SCHÖNOX LEICHTESTRICH SYSTEM

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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