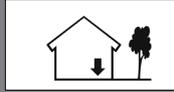


SCHÖNOX® TSD 3 mm

Sound insulation mat

is a crack-bridging decoupling and sound insulation mat consisting of pure rubber granules, which provides an optimum bond to SCHÖNOX tile installation products. SCHÖNOX TSD 3 mm is used indoors. Ideal for renovations and new buildings. Only 3.0 mm thick.



Product characteristics

- EMICODE EC 1^{PLUS}: very low emission
- officially approved
- high breaking strength
- resistant to compression
- impact sound insulating
- crackbridging
- waterproof
- relieves stress
- for interior use
- easy to work on
- low construction height
- good adhesion to SCHÖNOX tile adhesives
- suitable for application on subfloor heating systems
- suitable under electrical floor heating systems

Applications

SCHÖNOX TSD 3 mm is suitable for:

- improvement of impact sound under ceramic coverings, natural- and artificial stones
- uncoupling of ceramic coverings on stable substrates
- uncoupling of natural stones with a minimum thickness of 15 mm on stable substrates
- SCHÖNOX TSD 3 mm can also be used in normal loaded wet areas according to the ZDB-leaflet in connection with SCHÖNOX bonded sealings (Gluing of SCHÖNOX TSD 3 mm necessary).
- SCHÖNOX TSD 3 mm is used in living- and commercial areas with normal residential load up to a working load of 2,0 KN/m².
- For use in commercial areas with higher load ask for special advice.
- For expected higher loads ideal in combination with SCHÖNOX PZG armour reinforcement. Therefore embed SCHÖNOX PZG on SCHÖNOX TSD 3 mm in filler.

Substrates

SCHÖNOX TSD 3 mm is suitable on:

- concrete (at least 3 months old)
- cement and rapid cement screeds
- calcium sulphate based screeds
- mastic asphalt screeds (completely sanded) AS IC 10 and AS IC 15 according to EN 13813
- old substrates such as ceramic tiles, natural stones and terrazzo
- old concrete blocks and natural stones
- dry screeds
- old PVC-coverings
- wood planks combined with SCHÖNOX SPF
- mixed 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.
- Surface treatments or any "friable" areas of the subfloor must be mechanically removed and the subfloor repaired with SCHÖNOX levelling compounds as required.
- Substrate should fulfill the requirements of DIN 18 202, tolerances in building constructions.
- The requirements of DIN 18 560 are applicable.
- With subsequent installation of ceramic coverings cement screeds are required to be at least 28 days old and to display a residual moisture reading of ≤ 2.0 CM-% (heating screeds ≤ 2.0 CM-%), calcium sulphate screeds should have a reading of ≤ 0.5 CM-% (heating screeds ≤ 0.3 CM-%).
- Prepare heating screeds according to the professional information "Schnittstellenkoordination bei beheizten Fußbodenkonstruktionen".

Technical data

- Color: black
 - Material thickness: appr. 3,0 mm
 - Sheet width: 1,25 m
 - roll length: 5,0 m
 - mass per unit area: approx. 2,3 kg/m²
 - Temperature resistance: - 30 °C up to + 80 °C
 - Thermal resistance: 0,03 m² K/W
 - Acoustic improvement: ΔLw=16 dB¹
- ¹test stand data according to ISO 140-8, acts as indicator.
- The acoustic improvement is dependent on the local situation (ceiling construction) and can only be identified after a test laying.
- Reaction to fire: E_f



SCHÖNOX® TSD 3 mm

- Old, ceramic coverings and natural stones should be firmly laid, thoroughly cleaned and eventually abraded.
- Poorly attached ceramic coverings should be removed and if necessary levelled with SCHÖNOX floor levelling compounds.
- To avoid acoustical bridges install an edge trim to vertical structures before laying SCHÖNOX TSD 3 mm and covering
- Wooden planks should be fixed well on the timber work and inserted in groove and tongue. They should not move opposite to one other and should have an even moisture of wood. Damaged planks should be renewed with a wooden construction minor sensitive to expansion.
- Before gluing SCHÖNOX TSD 3 mm on timber floor boards they should be thoroughly cleaned. If necessary they should be grinded and levelled using SCHÖNOX SPF.

Priming

- **normal absorbent substrates such as:**
 - cement screeds
 - rapid cement screeds
 - prime with SCHÖNOX KH (1:5) or SCHÖNOX KH FIX .
 - concrete
 - prime with SCHÖNOX KH (1:3) or SCHÖNOX KH FIX .
- **non-absorbent, smooth, sound substrates such as:**
 - ceramic tiles (thoroughly cleaned and abraded)
 - water-resistant adhesive residues (removed as far as possible)
 - mastic asphalt screeds, insufficient sanded
 - prime with SCHÖNOX SHP.
- **calcium sulphate substrates such as:**
 - calcium sulphate screeds
 - prime with SCHÖNOX KH (1:1) (drying time at least 24 hours) or SCHÖNOX KH FIX (drying time at least 1 hour).
- **magnesia screeds:**
 - prime with SCHÖNOX GEA or SCHÖNOX HP RAPID and sand.

Instead of sanding, SCHÖNOX GEA or SCHÖNOX HP RAPID can be primed with SCHÖNOX SHP.

■ **Wooden substrates like e.g.:**

- particle boards, OSB, plywood, solid wood and fiber boards with CE marking according to DIN 13986 (screwed and/or bonded over the whole surface).
- stable laid wooden planks
- prime with SCHÖNOX KH (neat) (drying time approx. 4 hours) or SCHÖNOX KH FIX (drying time at least 1 hour).

Recommended method of working

- Smoothness of the substrate must be checked before laying. If needed it should be levelled with a SCHÖNOX levelling compound to allow a gluing without cavities.
- Old, ceramic coverings should be thoroughly cleaned if necessary sanded and primed with SCHÖNOX SHP.
- By the use of SCHÖNOX tile adhesives, recommended on old ceramic coverings without priming, the use of SCHÖNOX SHP can be omitted.
- Before laying SCHÖNOX TSD 3 mm store for appr. 24 hours in a dry and tempered room for acclimatisation.
- The needed sheets are cut with scissors or a cutter before working.
- Keep an edge distance of at least 10 mm.
- SCHÖNOX TSD 3 mm is glued close slotted and wrinkle free on the smooth and clean substrate with a SCHÖNOX tile adhesive using a 6 mm toothing. Avoid air bubbles.
- Recommended tile adhesives: SCHÖNOX Q12, SCHÖNOX Q9, SCHÖNOX Q9 W, SCHÖNOX Q8, SCHÖNOX Q6, SCHÖNOX Q6 W, SCHÖNOX Q4 RAPID and SCHÖNOX TT S8.
- Alternatively SCHÖNOX iFIX™ is suitable for gluing.
- Sheets should be close slotted. Splittings are treated using a standard crepe tape.
- If it is not possible to have joints tight slotted, close them using the assembly adhesive Sikaflex-111 Stick & Seal or the bonded sealing SCHÖNOX HA PRO flush with the surface. Put off excessive material using a spatula.
- Ceramic tiles or natural stones are laid after hardening of the tile adhesive used to glue SCHÖNOX TSD 3 mm.
- For the gluing of SCHÖNOX TSD 3 mm and laying of ceramic tiles or natural stones it can make sense to use a rapid setting tile adhesive to have an efficient construction progress also under inappropriate circumstances like climate conditions or large-sized tiles.
- Recommended tile adhesives: SCHÖNOX Q9, SCHÖNOX Q4 RAPID and SCHÖNOX Q9 W.
- Carry out laying as far as possible cavity-free.
- The choice of the tile adhesive resp. the method of laying is depending on the used covering and the applied load.
- Especially under inappropriate climate conditions or with large-sized tiles in combination with normal setting tile adhesives a longer waiting before grouting can be required.
- Grouting is normally carried out with the universal flexible grouting mortars SCHÖNOX SU or SCHÖNOX SF DESIGN. Characteristics specific to the covering should be taken in account.
- Movement joints from the substrate must not taken over stringently. If not taken over, they must be secured against height offset.
- Strive for compact field-sizes. L- or U-shaped fields should be separated with joints. Field-sizes should not be larger as 40 m² and max. 8 m field length.
- In doorways joints should be placed in the covering. Different heatable areas should also be separated with joints placed in the covering.
- Attention: Building joints and edge joints should be taken over congruent in the covering.

Packaging

5,00 m roll (1,25 m width)

Storage

- Store SCHÖNOX TSD 3 mm cool, dry and upstanding.

SCHÖNOX® TSD 3 mm

- Storage life of 2 years.
- Protect from direct sunlight.
- Don't stack pallets.

Disposal

- For the disposal of product residues, waste water and containers with adherent product residues please follow the local governmental regulations.

EMICODE

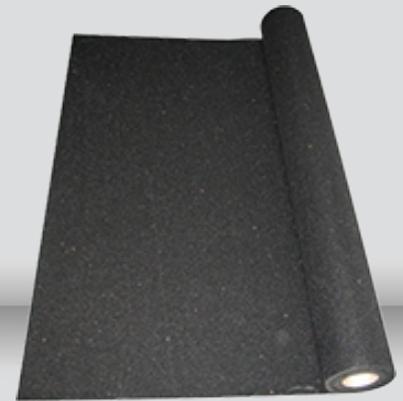
- EC 1^{PLUS}: very low emission

Instructions

- Stationary load: The breaking force of the used ceramic covering should be adapted to the expected load. Breaking force at least 1500 N. This is equivalent to a ceramic tile according to EN 176 & #60; 3% (stoneware slab) with a thickness of 7,5 mm and quadratic size. We recommend to use quadratic coverings, because with rectangular ones the breaking force is halve. Details how to calculate the breaking force of ceramic coverings are included in the ZDB-leaflet "Mechanically high loaded floor coverings".
- In commercial areas tiles and slabs should have a sufficient thickness and should be laid cavity-free as far as possible. Where required use the Floating-Buttering method.
- The acceptable stationary load with a contact area of 10 cm² is 3,5 KN.
- For laying of ceramic coverings on floors stoneware slabs, fully vitrified tiles, split tiles and clinker slabs according to EN 121, 176, 177, 178, 186-1 186-2, 187-1 and 187-2 from a size of 10 x 10 cm are allowed.
- If large-format and thin-layer ceramic tiles (< 7.5 mm) are to be installed, please obtain special information.
- In general take care to use a sufficient amount of adhesive for laying and adjust the method of laying to the used covering.
- For laying natural stones at least a thickness of ≥ 15 mm is necessary. Granite, quartzite and similar hard stones should be preferred

- In showrooms laying of calibrated natural stones ≥ 10 mm with SCHÖNOX TSD 3 mm is possible. Please, follow the recommendations of the laying materials for the laying of natural stones.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- For wooden substrates depending on the condition of the substrate and the expected load, where required use SCHÖNOX EDP 9 mm.

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