

Sealing and uncoupling layer

crack-bridging sealing sheet out of a highly tear-resistant polyethylene foil, two-sided fleece laminated for sealing in normal and highly loaded wet areas and swimming pools. SCHÖNOX AB gives very good adhesion performance to tile setting products. Component of the SCHÖNOX BALTERRA®-system. For interior and exterior use. Officially approved test certificate in the sealing loading classes A,B and C. Fulfills the requirements of ETAG 022.

Product characteristics

- officially approved - no.: P-5121/802/11-MPA BS P-5180/861/11-MPA BS
- EMICODE EC 1^{PLUS}: very low emission
- high breaking strength
- crackbridging
- waterproof
- rotproof
- relieves stress
- watertight as sealing
- water vapour retarding
- decoupling
- flexible
- easy to apply
- good adhesion to SCHÖNOX tile adhesives
- suitable for application on subfloor heating systems
- for interior and exterior use (for exterior use only in combination with SCHÖNOX MSE and SCHÖNOX EP DRAIN)
- component of the SCHÖNOX BALTERRA®-system

Applications

SCHÖNOX AB is especially suitable before the sealing:

- in highly loaded commercial wet rooms, such as shower rooms in sport halls, therapy rooms in hospitals and the like
- In normal loaded wet areas, moisture loading classes A0 according to the ZDB-leaflet, for example in bathrooms and showers.
- in swimming pools in combination with ceramic coverings
- On balconies and terraces in combination with the SCHÖNOX BALTERRA®-system.
- In areas with limited chemical use (moisture loading class C according to the German abP).
- SCHÖNOX AB fulfills the requirements of ETAG 022, part 2, for watertight

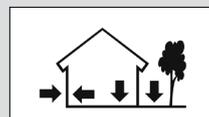
covering kits based on flexible sheets for walls and floors in wet rooms in combination with SCHÖNOX ST-COMPONENTS. ETAG approval number ETA-12/0027.

- SCHÖNOX iFIX™/ SCHÖNOX AB meets the requirements of the moisture loading classes A0 and B0 for membranes in the leaflet „Hinweise für die Ausführung von Abdichtungen im Verbund mit Bekleidungen und Belägen aus Fliesen und Platten für den Innen- und Außenbereich“ and the leaflet „Keramische Beläge im Schwimmbadbau - Hinweise für Planung und Ausführung“.
- SCHÖNOX iFIX™/ SCHÖNOX AB is authorized by the German building supervision for the preparation of bonded sealings with membrane foils in highly loaded wet areas in the moisture loading classes A, B and C.
- The impermeability to water when installed has been tested together with SCHÖNOX iFIX™/ SCHÖNOX ST system components in accordance with test principles for membrane foils as well as for waterproof membranes combined with tiled finishes (AIV) up to a water pressure of 2.5 bar and is acceptable for an installation depth up to 10 m. For mounting depths > 4.0 m up to 10.0 m are only be used the tile adhesives SCHÖNOX Q12, SCHÖNOX TT S8, SCHÖNOX Q6 W and SCHÖNOX KR.
- In the moisture loading classes A0, B0, A und C, SCHÖNOX AB can be glued with SCHÖNOX RK 20 or other tested SCHÖNOX tile adhesives.

Instruction: In application of moisture loading class B0 according to ZDB-leaflet, SCHÖNOX AB can be applied on balconies and terraces (no roof terraces, because here special structural measures are necessary) under SCHÖNOX MSE and SCHÖNOX EP DRAIN (Please, notice the appropriate product data sheets).

Technical data

- Color: grey
- Sheet width: 1,00 m
- roll length: 30,0 m und 10,0 m
- Material thickness: appr. 0,5 mm
- mass per unit area: approx. 280 g/m²
- Application temperature: not below +5 °C
- Temperature resistance: -30 °C to +90 °C
- Burst pressure: 3,9 bar
- (moisture vapour resistance air equivalent) sd-value: > 96 m tested according ETAG 022
- UV-resistance: min. 500 hours



Roofterraces, loggias or similar areas above inhabited rooms should be sealed according to the standard as well as to the flat-roof guidelines. SCHÖNOX AB is not a substitute for a sealing according to the standard.

Substrates

SCHÖNOX AB is suitable on:

- concrete
- masonry (fully grouted)
- cement and rapid cement screeds
- calcium sulphate based screeds
- old substrates such as ceramic tiles, natural stones and terrazzo
- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength $\geq 2,5 \text{ N/mm}^2$)
- gypsum plaster according to EN 13279-1, compression strength $\geq 2,5 \text{ N/mm}^2$; residual moisture $\leq 1,0 \text{ CM-\%}$)
- composite elements of polystyrene coated with mortar
- pre-cast aerated concrete wall slabs
- gypsum board

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 $\leq 2.0 \text{ CM-\%}$ (heating screeds $\leq 2.0 \text{ CM-\%}$), calcium sulphate screeds should have a reading of $\leq 0.5 \text{ CM-\%}$ (heating screeds $\leq 0.3 \text{ CM-\%}$).

- 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.
- Prepare calcium sulfate screeds following the BEB lealet „Hinweise zur Beurteilung und Vorbereitung der Oberfläche von Anhydritestrichen“.

Priming

- For information about priming see product data sheet 8.46, SCHÖNOX iFIX™.

Recommended method of working

- **Processing according approval abP P-5121/802/11-MPA-BS in combination with SCHÖNOX iFIX™:**
- For more information about the application of SCHÖNOX AB with SCHÖNOX iFIX™ see product data sheet 8.46, SCHÖNOX iFIX™.
- 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.
- The needed sheets are cut with scissors or a cutter before working.
- Lay in SCHÖNOX AB in the membrane adhesive like a wall paper and press in with a plastering trowel.
- It is essential to avoid bubbles under SCHÖNOX AB. We recommend to smooth it from the middle of the sheet outwards.
- SCHÖNOX AB can be glued with abutting edge as well as overlapping.
- With overlapping laying at least 5 cm is needed. Therefore the adhesive in the border area is applied 8 cm wider as SCHÖNOX AB. Lay in SCHÖNOX AB into the fresh adhesive bed and press in with the SCHÖNOX iFIX™ TOOL. The overlap is embedded with a thin layer of adhesive. It is essential to avoid cavities in the overlapping area.
- If glued with abutting edge, it is recommended to glue SCHÖNOX ST SEALING

TAPE in the corner region of wall/wall and wall/floor as well as in the joint area. It is essential to avoid cavities in the joint area.

- Use prefabricated SCHÖNOX ST IC INTERIOR ANGLE and SCHÖNOX ST EA EXTERIOR ANGLE for corners.
- Floor drains and pipe penetrations should be furnished with SCHÖNOX ST FC SEALING SLEEVE FLOOR and SCHÖNOX ST D STRETCHABLE SEALING SLEEVE WALL.
- Connections to fixed built-in parts should be carried out with suitable membranes applicable with a spatula. Depending on the situation at the building site SCHÖNOX AB or SCHÖNOX ST SEALING TAPE can be used to install a tight connection in combination with SCHÖNOX KR, SCHÖNOX CON BODEN (without sand), SCHÖNOX EA PUR or SCHÖNOX EA PUR S.
- At movement joints and building joints as well as at perimeter joints SCHÖNOX AB is to cut and to paste over with SCHÖNOX ST SEALING TAPE. SCHÖNOX ST SEALING TAPE can also laid in movement joints like a loop.
- On balconies and terraces (no roof terraces and loggias etc.) lay SCHÖNOX AB lengthwise to the slope and not crosswise. That ensures that the wall socket can be carried out with a height of at least 150 mm over the covering and drained water is not retained at splittings.
- For more information see product data sheet 7.65, SCHÖNOX ST SEALING TAPE.
- More detailed processing instructions you can take from the ETAG processing guideline which you can download under www.schoenox.de or you can ask for via SCHÖNOX GmbH.

Using of SCHÖNOX AB in class C of building authority regulated area:

- SCHÖNOX AB should be laid with abutting edge. Afterwards splittings and end of sheets are carried out with SCHÖNOX ST SEALING TAPE.
- The SEALING TAPE is glued with SCHÖNOX KR, SCHÖNOX CON BODEN

(without sand), SCHÖNOX EA PUR or SCHÖNOX EA PUR S at splicings and the end of sheets with at least 5 cm overlapping.

- Use prefabricated SCHÖNOX ST IC INTERIOR ANGLE and SCHÖNOX ST EA EXTERIOR ANGLE in combination with SCHÖNOX KR, SCHÖNOX CON BODEN (without sand), SCHÖNOX EA PUR or SCHÖNOX EA PUR S to carry out the corners.
- Depending on the expected load tiles are glued with the epoxy-resin thin-bed mortar SCHÖNOX KR or, if only loaded low, with the tested cementitious thin-bed mortar.
- Grouting should be carried out, depending on the load, with SCHÖNOX XR 40 or with the epoxy-resin based groutings SCHÖNOX CF DESIGN / SCHÖNOX CON BODEN.
- **Processing according approval abP P-5180/861/11-MPA-BS:**
- To make a composite membrane with AB in the moisture loading classes A and C the bonding of the sealing membrane can also be done with the in abP (test certificate) proved tile adhesives or SCHÖNOX RK 20. The carrying out of the details with the SCHÖNOX ST system components (sealing tape, sealing collar for walls and floors, internal- and external angles) is mandatory done with SCHÖNOX iFIX of SCHÖNOX 1K DS PREMIUM respectively in the moisture class C with the epoxy resin tile adhesive SCHÖNOX KR, SCHÖNOX CON BODEN (without sand), SCHÖNOX EA PUR or SCHÖNOX EA PUR S. This kind of working is not in the sealing loading class B, swimming pools, approved.
- Floor drains should be furnished with SCHÖNOX ST FC SEALING SLEEVE FLOOR, according to type in combination with the butyl ring SCHÖNOX ST BR and pipe penetrations SCHÖNOX ST D STRETCHABLE SEALING SLEEVE WALL.

Use of SCHÖNOX AB as uncoupling:

- SCHÖNOX AB is glued close slotted and wrinkle free on the smooth and clean substrate with SCHÖNOX iFIX™,

SCHÖNOX RK 20 or with the in abP (test certificate) proved tile adhesives using a 4 mm toothing. Avoid air bubbles.

- Sheets should be close slotted. Splittings are treated using a standard crepe tape.
- Laying of the covering is done as far as possible without cavities with the in abP (test certificate) proved tile adhesives. The choice of the floor adhesive to use is depending on the covering and the load.
- Grouting normally is done with the universal, flexible jointfiller SCHÖNOX SU. Special features depending on the covering should be respected. Observe the product data sheet of SCHÖNOX SU.
- Movement joints from the substrate must not taken over stringently. If not taken over, they must be secured against hight 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.
- SCHÖNOX AB can be used in living areas and commercial areas with a working load up to 5 KN/m².
- 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 < 3% (stoneware slab) with a thickness of 9 mm and quadratic size. We recommend to use quadratic coverings, because with retangular 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".
- 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. For floor coverings with a width-to-height ratio over 1:2 and larger than 40 x 40 cm please ask for special advice.

■ For laying large-sized tiles and slabs use the Floating-Buttering method where required resp. ask for special information.

■ For laying natural stones at least a thickness of 10 mm is necessary. Granite, quartzite and similar hard stones should be preferred

Packaging

- 30 m roll
- 10 m roll

Storage

- Store SCHÖNOX AB cool, dry and horizontal.
- Storage life of 2 years.

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

- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- The compatibility list is available on request and on the Internet for download.

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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