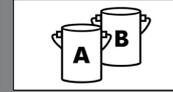
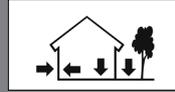


# SCHÖNOX® EA PUR S



## 2-component polyurethan waterproofing – NEW QUALITY

SCHÖNOX EA PUR S is a sturdy, flexible, crack-bridging and chemically resistant surface sealing under tiles particularly on wall and floor surfaces. Authorized by the German building supervision for the preparation of bonded membranes in highly loaded wet areas in the moisture loading classes A, B and C according to „Verwaltungsvorschrift Technische Baubestimmungen (WTB) lfd. Nr. C 3.27“. SCHÖNOX EA PUR S fulfills the RM O2 P requirements according to EN 14891.



## Product characteristics

- officially approved - no.: P-102362402.201
- EMICODE EC 1<sup>PLUS</sup>: very low emission
- fulfills RM O2 P requirements according to EN 14891
- fulfills the W0-I to W3-I requirements according to DIN 18534
- fulfills the requirements W2-B, R1-B and S1-B to S3-B according to DIN 18535
- for interior and exterior use
- sturdy
- watertight
- crackbridging
- cold flexible
- hardening without shrinkage
- safe application and multi-purpose use
- resistant against ageing
- high tensile and shearing strength
- high chemical resistance (see list of resistance characteristics)
- easy to apply
- universal suitability
- relieves stress
- contains no plasticizer
- solvent-free according to TRGS 610
- suitable for application on subfloor heating systems
- corresponds to quality level 4, DGNB criterion ENV 1.2 Risks for the local environment

## Applications

### SCHÖNOX EA PUR S is especially suitable before the sealing:

- in swimming pools with normal, thermal, brine or sea water
- in highly loaded commercial wet rooms, such as shower rooms in sport halls, therapy rooms in hospitals and the like
- In areas with chemical use (moisture loading class C according the German abP).
- on balconies and terraces

- SCHÖNOX EA PUR S meets the requirements 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 EA PUR S 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 system components in accordance with test principles for fluid waterproofing's combined with tiled finishes (AIV) up to a water pressure of 2,5 bar and is acceptable for an installation depth up to 10,0 m.
- An overview about the tile adhesives, tested according abP in combination with bonded sealings you will find in our recommendations for use. The overview you can download under [www.schoenox.de](http://www.schoenox.de).

## Substrates

### SCHÖNOX EA PUR S is suitable on:

- concrete (at least 6 months old)
- cementitious screeds (at least 28 days old)
- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength  $\geq 2,5 \text{ N/mm}^2$ )
- masonry
- cement and rapid cement screeds
- old concrete blocks and natural stones
- old ceramic coverings
- Steel and other metals (free of rust and grease)

## Technical data

- Basis: solvent-free 2-component polyurethane
- Color: beige
- Pot life: approx. 30 minutes at +20 °C
- Maturing time: approx. 2 minutes
- Drying time between 1. and 2. coat. approx. 12 - 48 hours on walls
- Ready for foot traffic: after approx. 12 hours
- Application temperature: +10 °C (max. 75 rel. air humidity) to +25 °C (max. 85 rel. air humidity)
- Ready for covering: after ca. 12 hours at +23 °C with approved SCHÖNOX tile adhesives on the sanded membrane
- Density (mixture 23 °C): 1,10 kg/l
- Temperature resistance: dry up to +70 °C durability resistant
- Temperature resistance: wet up to +40 °C durability resistant
- Reaction to fire: E



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## Requirements of substrate

- Adequate dryness, strength, bearing strength, evenness and dimensional stability.
- 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.
- Substrate should fulfill the requirements of DIN 18 202, tolerances in building constructions.
- The requirements of DIN 18 157 are applicable.
- Concrete are required to display a residual moisture reading of  $\leq 3.5$  wt-% (measured by kiln drying).
- Cement screeds are required to display a residual moisture reading of  $\leq 2.0$  CM.
- Old brickwork and plaster should be solid and air-dried.
- Smooth and tight concrete substrates should be prepared of with a coarse surface (e.g. grit-blasting or milling).
- Cementitious screeds and concrete in exterior areas must be sufficient dry.
- Smooth rock pockets in concrete and coarsely porous concrete substrates, if applicable after grit-blasting or milling, using SCHÖNOX PL or EP mortar (SCHÖNOX GEA and SCHÖNOX QUARZSAND 0.2-0.8 mm, mixture 1:1 up to 1:3).
- Steel and other metal substrates if needed degrease, derust and paint with rust protection.
- Old ceramic coverings should be thoroughly cleaned (black pad) and probably abraded.
- For laying on heating screeds pay attention to the leaflet ceramic tiles and slabs, natural and concrete stones on heated and unheated cementitious floor constructions as well as EN 1264, part 4. We recommend for heated floor constructions to pay attention to the professional information "Schnittstellenkoordination bei beheizten Fußbodenkonstruktionen" of the BVF. Basically, floor heating sys-

tems should be started up slowly after laying the ceramic tiles at the earliest after 7 days at room temperature.

- Subfloors with expected raising damp should be protected in compliance with the standard.

## Priming

### ■ substrates as:

- concrete
  - cement screeds
  - rapid cement screeds
  - cement plaster
  - lime-cement plaster
  - ceramic coverings, stable, thoroughly cleaned and if necessary abraded
  - Metal substrates
- prime with SCHÖNOX GEA and sand.

## Material consumption

### Moisture loading class A, B and C:

approx. 1,6 kg/m<sup>2</sup> for two layer application.

The applied quantity varies depending on roughness depth and porosity of the subfloor and differs depending on material and subfloor temperature as well as the applicator. Low temperatures raise viscosity and therefore material consumption.

### ■ Layer thickness:

Wet layer thickness 1st Layer (sealing coat) minimum 1.2 mm or 1.4 kg/m<sup>2</sup>, wet layer thickness 2nd layer (broadcast coat) minimum 0.1 mm or 0.2 kg/m<sup>2</sup>. Dry layer-thickness of the whole coating minimum 1.0 mm.

- During the application of SCHÖNOX EA PUR S the wet film thickness could be controlled with the SCHÖNOX NASSSCHICHTDICKENMESSER.

- Alternatively the layer thickness could be controlled and calculated during the application in dependence of the material consumption (kg per m<sup>2</sup>).

## Recommended method of working

- SCHÖNOX EA PUR S should only be used at temperatures above +10 bis +25 °C. The ideal working temperature is of +20 °C. Observe the dew point. The

substrate temperature must be 3 °C above the dew point.

- Wear suitable protective gloves and protective goggles.
- Thoroughly mix the SCHÖNOX EA PUR S resin component (A) with the SCHÖNOX EA PUR S hardener component (B) until the material is homogeneous and free of streaks.
- Slowly mixing using a continuously adjustable mixer with max. 300 rpm is recommended.
- To avoid unsatisfactory mixes, transfer the mix to a clean container and repeat the mixing process.
- Mixing time approx. 3 minutes.
- To guarantee a save sealing SCHÖNOX EA PUR S has to be applied in min. two work steps. The needed wet respectively dry layer thickness must be observed.
- Apply the 1st layer (sealing coat) with suitable steel a float or a notched (f.e. 5-6 mm)/toothed trowel and afterwards smooth with a smoothing trowel. Consumption minimum 1,3-1,4 kg/m<sup>2</sup>.
- The first coating must be hardened before the second coating is applied. The second layer must be applied within 12 up to 48 hours after the first one.
- The 2nd coat (bedding layer) can be levelled using a suitable smoothing trowel. Consumption at least 0,2 kg/m<sup>2</sup>.
- In the fresh phase of the material sand in excess with clean, dry SCHÖNOX QUARZSAND (0,2-0,8 mm). Put forward only as much surface as can be sanded within the wet phase.
- SCHÖNOX QUARZSAND can be effectively applied to a compressed air hopper gun.
- SCHÖNOX EA PUR S can also be applied with the spraying method. Please ask for additional information.
- Movement joints as well as floor- and wall connection joints should be bridged with SCHÖNOX ST 50/ ST 25 sealing tape, SCHÖNOX IC interior corner, SCHÖNOX EC exterior corner as well as SCHÖNOX SC slope corner.
- Floor drains and pipe penetrations should be furnished with SCHÖNOX FC

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sealing sleeve floor and SCHÖNOX D stretchable sealing sleeve wall.

- The SCHÖNOX ST 50/ ST 25 sealing tape and the SCHÖNOX system components are used for the realization of details before applying the membrane to the entire surface area.
- Install SCHÖNOX ST 50/ ST 25 sealing tape and SCHÖNOX system components at abutting edges with at least 5 cm overlapping.
- After execution of all details, applying the bonded sealing to the whole surface can start.
- Sealing tapes, sealing sleeves and sealing angles can be fully worked over with the second layer of the bonded sealing.
- In areas with moveable zones, e.g. loop installing or over movement- and building joints, spare the bonded sealing in the same width.
- To guarantee the function of the membrane, this procedure must be carried out carefully.
- For more information see product data sheet SCHÖNOX ST 50/ ST 25 sealing tape.
- Penetrations should be treated with thin bed flanges in a minimum circumferential width of 5 cm and made from a material suitable for bonding such as stainless steel, gunmetal, PVC, ask for special information.
- Repair of subsequently damaged areas: Reconstruct using the same layer thickness, overlapping the undamaged area by at least 5 cm. Required drying times must be observed prior to laying new tiles.
- Clean tools immediately with solvent or with SCHÖNOX FIX CLEAN.
- Test filling in the swimming pool at the earliest after 7 days.
- For installing the sealing to tubs or showers with e.g. shower sealing tapes according DIN 18534-1 use SCHÖNOX SB SET SHOWER and BATH SEALING TAPE SET.

## Working up SCHÖNOX SB SET SHOWER and BATH SEALING TAPE:

- SCHÖNOX SB Shower bath sealing tape is used for the watertight connection of shower trays and bathtubs to the surface seal according to DIN 18534. The set includes 10 m of cross-elastic, fleece-laminated special joint sealing tape with a self-adhesive strip on both sides, 3 butyl sticks for sealing different shower and bath corners and a radius template.
- SCHÖNOX SB shower bath sealing tape can be combined with all SCHÖNOX waterproofing systems. SCHÖNOX SB shower bath sealing tape is equally suitable for shower and bath tubs made of acrylic and steel enamel. When using SCHÖNOX SB shower bath sealing tape, there isn't a further sealing membrane underneath the shower or bathtub necessary.
- The surfaces of the shower and bath must be cleaned free of grease with suitable cleaning agents. With the help of the radius template and the SCHÖNOX SB SET attached Butylsticks prepare the corners of the shower and bathtub if necessary. Then align the SCHÖNOX SB SEALING TAPE, remove the protective foil and stick it with the butyl tape so that the remaining sealing tape points upwards. Then press evenly with a suitable tool. Then insert the SCHÖNOX SB SEALING TAPE into the SCHÖNOX compound seal and press it with the trowel without any cavities. With the second order of the SCHÖNOX compound seal, the tub sealing tape is being revised.
- To further avoid sound bridges, a self-adhesive noise protection tape (included in the bathtub / shower tray) can be applied to the SCHÖNOX SB shower bath sealing tape previously applied to the edge of the tub. Alternatively, the edge strip SCHÖNOX RS 50 can be glue on the wall (substrate) at the level of the bathtub or shower tray edge.

## Working up SCHÖNOX MFC MULTIFUNCTION CORNER:

- SCHÖNOX MFC is a waterproof, multi-functional shower and bath tub corner

with self-adhesive strip for secure sealing of numerous and difficult corner installation situations. Can be used quickly and safely for floor-level showers as well as conventional shower and bathtubs.

- The surfaces of the shower and bath must be cleaned free of grease with suitable cleaning agents. Then align the SCHÖNOX MFC MULTIFUNCTION CORNER, remove the protective foil and stick it on with the butyl tape and press down with a suitable tool. Then seal the wall / floor connection of the SCHÖNOX MFC MULTIFUNCTION CORNER with the SCHÖNOX membrane to the wall or floor surface. The SCHÖNOX SB SHOWER BATH SEALING TAPE or the SCHÖNOX ST 50 / ST 25 SEALING TAPE is connected to the SCHÖNOX MFC MULTIFUNCTION CORNER. Afterwards glue with a 10 cm piece of SCHÖNOX ST 50/ST 25 sealing tape and SCHÖNOX iFIX or SCHÖNOX 1K DS PREMIUM on the back (without butyl glue strips) fully overlapping.

## Packaging

- 5,0 kg combined tin bucket

## Storage

- Store SCHÖNOX EA PUR S in cool, dry, frost-free conditions. Avoid heating above +30 °C and cooling down under 0 °C.
- Storage life of 18 months (in closed packaging).

## Disposal

- For the disposal of product residues, waste water and containers with adherent product residues please follow the local governmental regulations.
- Material leftovers may disposed of dried up or hardened as commercial solid waste or domestic waste.

## GISCODE

- RU1 - solvent-free polyurethane adhesive / primer

# SCHÖNOX® EA PUR S

## EPD - Self-declaration

Sika Deutschland GmbH declares that the product fulfills the criteria for products based on polyurethane, 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-20220109-IBG1-EN

## Risk phrases

- Information on the safe handling of chemical products, as well as the essential physical, safety-related, toxicological and ecological data can be found in the current safety data sheets. Observe all relevant regulations, e.g. the hazardous substances act. Further instructions can be found on the internet at [www.schoenox.com](http://www.schoenox.com)
- For professional use only.
- This product contains isocyanates. Follow the instructions of the manufacturer. For more detailed information see Safety Data Sheet.
- To wear suitable personal protective equipment is necessary in any case. Please, find details on in the safety data sheet, chapter 8.

## Instructions

Although keep in mind occupational safety.

- All values are approximate and are subject to local climatic fluctuations.
- High temperatures accelerate, low temperatures decelerate the working and curing process.
- For working in exterior areas basically the atmospheric conditions must be stronger considered. Protect the work against imminent rainfalls with a suitable roofing.

- During the working process SCHÖNOX EA PUR S may not have contact to water.
- Hardened material can only be removed mechanically.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- EUH 204 Contains isocyanates. May produce an allergic reaction.

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 SGS

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