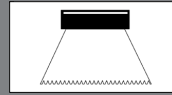
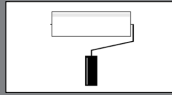
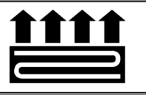


# SCHÖNOX® EPA



## Special solvent free epoxy resin based primer

suitable as a moisture barrier for concrete floors with very high residual moisture prior to laying floor coverings or parquet. Also suitable on calciumsulphate based screeds with slightly higher residual moisture. As a primer for absorbent, non absorbent as well as smooth surfaces. For interior and exterior use.



## Product characteristics

- waterfree
- solvent-free
- for floors
- waterproof
- resistant to chemical loadings
- good penetration
- end of pot life visible
- can be applied to almost all substrates
- grip promoting
- suitable for application on subfloor heating systems
- suitable on damp substrates
- high sealing function
- For increased residual moisture also single-layer application using a toothed trowel is a practical method
- for interior and exterior use

## Applications

### SCHÖNOX EPA is suitable:

- as a primer on substrates with high residual moisture
  - up to 10 wt.-% on concrete
  - up to 6 wt.-% on heated concrete (kiln drying testing necessary)
  - up to 5 CM-% on unheated cement screed
  - up to 3 CM-% on cement screed with floor heating
  - up to 0,8 CM-% on unheated calcium sulphate screeds
  - up to 0,5 CM-% on calcium sulphate screeds with floor heating
- as a primer to improve adhesion on smooth and sound substrates
- as a protective membrane against moisture out of auxiliary products by substrates sensitive to moisture

## Substrates

### SCHÖNOX EPA is suitable on:

- concrete
- cement and rapid cement screeds
- calcium sulphate based screeds

- old substrates such as ceramic tiles, natural stones and terrazzo
- magnesit screeds
- old sealed/coated surfaces
- steel and other metals

## Requirements of substrate

- Adequate dryness, strength, bearing strength, evenness and dimensional stability.
- Recommended maximum level of residual moisture should not be exceeded.
- Free of residues which reduce adhesion, e.g. dust, dirt, oil, fat and loose particles.
- Separation layers, sinter layers, and other similar contamination should be removed through appropriate measures, such as sanding, brushing, abrasive blast cleaning, milling or thorough cleaning.
- Old adhesive residues and levelling layers with no sufficient hardness should be removed completely by suitable mechanical means.
- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed. Remaining adhesive residues should be primed with SCHÖNOX EPA.
- Old water-resistant adhesives are to be mechanically removed as far as possible.
- As used as a moisture barrier all swellable respectively not water resistant layers must be removed completely.
- Old floors, such as ceramic tiles are to be thoroughly cleaned and sanded.
- Rooms in buildings without a basement, are to be sealed against rising dampness in compliance with the standard.
- Unheated concrete substrates must be at least 6 weeks old.
- Heated concrete substrates must be at least 3 months old and have been already heated up.

## Technical data

- Basis: 2-component epoxy resin
- Color: transparent-yellowish
- Density: 1,08 kg/l mixed material
- Mixing ratio:
  - comp. A : comp. B
  - = 3 : 1 in weight
  - = 3,2 : 1,0 in volume
- Storage temperature:
  - not below + 5 °C
- Working time: appr. 30 min. at 20 °C
- Application temperature:
  - not below 10 °C floor temperature
  - Recommended: > 15 °C floor temperature, relative humidity ≤ 75 %
- Drying time/further processing:
  - per layer at least 12 h at 20 °C floor temperature
  - At 20 °C a second layer has to be applied within 48 h.

All values are approximate and are subject to climatic fluctuations.



# SCHÖNOX® EPA

- Concrete substrates may be present wettish, but free of puddles.
- Smooth and tight concrete substrates should be prepared of with a coarse surface (e.g. grit-blasting or milling).
- The requirements of the relevant valid standards, guidelines and data sheets apply.

## Material consumption

### Roller application

#### 1st layer:

- SCHÖNOX EPA approx. 300 g/m<sup>2</sup>

#### every further layer:

- SCHÖNOX EPA approx. 200 g/m<sup>2</sup>
- SCHÖNOX QUARZSAND (0.2 – 0.8 mm) approx. 3 – 4 kg/m<sup>2</sup>

### Toothed trowel application (single-layer, toothing TKB B2)

- SCHÖNOX EPA approx. 500 g/m<sup>2</sup>

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.

## Recommended method of working

### General

- Thoroughly mix the SCHÖNOX EPA resin component (A) with the SCHÖNOX EPA hardener component (B) until the material is homogenous and free of streaks.
- Slowly mixing using a continuously adjustable mixer with max. 300 rpm is recommended.
- Repot the mixed material and mix shortly again.
- Small amounts can be mixed according to volume stated.

### Application as moisture barrier

#### Roller application

- Apply the first coat of the Primer with a roller (medium pile height) pore filling

and evenly on the clean substrate in cross coat.

- The second coat is applied after appropriate drying time of the first coat. It is possible to add up to 1 % per weight of a suitable coloured powder pigment to have an optical differentiation between the two layers.
- For two-layer application take care of a minimum consumption of 500 g/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.
- Earliest after 12 hours, respectively after hardening sweep the exceeded sand off. Hereafter vacuum clean with an efficient industrial vacuum cleaner.
- As an alternative SCHÖNOX EPA does not need to be sanded. Instead, after drying the special primer SCHÖNOX SHP is applied within 72 hours to provide adhesion for subsequent levelling compound layers. Refer to the current SCHÖNOX SHP data sheet.
- SCHÖNOX EPA is no substitute to a moisture protection for constructions according to standard.

### Toothed trowel application

- Use a toothed trowel type TKB B2 to apply SCHÖNOX EPA as a single-layer.
- Pay attention to apply an even and tight coat. Avoid imperfections.
- If application takes place with toothed trowel sanding with silica sand is not possible. Instead after drying the special primer SCHÖNOX SHP is applied within 72 hours to provide adhesion for subsequent levelling compound layers. Refer to the current SCHÖNOX SHP data sheet.

### Application as a bonding agent on non absorbent substrates

Single-layer application with roller is sufficient.

- Subfloor should be thoroughly cleaned and afterwards abraded.
- Apply primer with a suitable tool, e.g. roller evenly to the clean and dry substrate.

- 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.
- As an alternative SCHÖNOX EPA does not need to be sanded. Instead, after drying the special primer SCHÖNOX SHP is applied within 72 hours to provide adhesion for subsequent levelling compound layers. Refer to the current SCHÖNOX SHP data sheet.

### Direct gluing of parquet

- Drying time at least 12 h after applying the last coating.
- Within 72 hours a direct gluing of parquet on the dry primer with SCHÖNOX elastic or PU-based parquet adhesives is possible.
- For further processing later than within 72 hours grind SCHÖNOX EPA e.g. by using a black pad.

## Packaging

- 10,0 kg combined packaging composed of:
  - 7,4 kg component A (resin)
  - 2,6 kg component B (hardener)

## Storage

- Store SCHÖNOX EPA in cool, dry, frost-free conditions. (ideal storage temperature 10 – 20 °C). Before working bring up to room temperature.
- Storage life of 18 months (in closed packaging).

## 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.

## GISCODE

- RE 30 - epoxy resin products, sensitizing, total solid

## EPD - Self-declaration

Sika Deutschland GmbH declares that the product fulfills the criteria for reactive

# SCHÖNOX® EPA

resins based on epoxy resin, unfilled/  
solvent free with low content of reactive  
diluent.

## ENVIRONMENTAL PRODUCT DECLARATION

acc. to ISO 14025 and EN 15804

### Owner of declaration

FEICA - Association of the European Ad-  
hesive 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-20150298-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.
- Product contains epoxy resin. This may act corrosive (resp. irritating) to the skin and may cause sensitization. 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

- Clean tools immediately after use with SCHÖNOX FIX CLEAN. Although keep in mind occupational safety.
- Hardened material can only be removed mechanically.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

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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