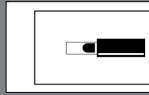


# SCHÖNOX® EPM

## Epoxy based binder

for the preparation of high performance, quickly ready for laying mortars. Mixed with SCHÖNOX SILICA SAND 0,1 - 3 mm screeds of hardness class SR C40 - F10 according to EN 13 813 can be prepared.



## Product characteristics

- approved by the building authorities
- EMICODE EC 1<sup>PLUS</sup>: very low emission
- waterfree
- solvent-free
- rapid hardening
- short time to be ready for covering
- for floors
- waterproof
- resistant to chemical loadings
- can be applied to almost all substrates
- layer-thickness 10 to 80 mm
- for interior and exterior use

## Applications

### SCHÖNOX EPM is suitable:

- as a binder to make a high-strength, fast coatable resin based mortar

## Substrates

### SCHÖNOX EPM is suitable on:

- concrete
- 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
- wooden substrates
- magnesit screeds
- old sealed/coated surfaces
- steel and other metals

## 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.
- 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, loose and weak levelling layers should be removed mechanically.
- 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.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

## Recommended method of working

- Thoroughly mix the SCHÖNOX EPM resin component (A) with the SCHÖNOX EPM 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.
- Add the homogenous mixed binder SCHÖNOX EPM to the silica sand (25 kg SCHÖNOX QUARZSAND 0 - 3 mm) and mix thoroughly.
- Place the material in the suitable substrates to fill and compress. Prime highly absorbent substrates with SCHÖNOX EPM. The application of the mortar must be carried out in the fresh phase of the primer.
- Do not mix more material than can be handled within 30 minutes.
- The minimum layer-thickness is 10 mm.
- After drying (min. 12 hours at 20 °C) before applying levelling compounds or tile adhesives prime the mortar with SCHÖNOX SHP.

## Packaging

- 2,0 kg box composed of:
  - 1,33 kg component A (resin)
  - 0,67 kg component B (hardener)

## Technical data

- Basis: 2-component epoxy resin
- Color: transparent-yellowish
- Density: 1,07 kg/l mixed material
- Mixing ratio:
  - comp. A : comp. B
  - = 2 : 1 in weight
- Material consumption:
  - as a reaction resin mortar approx. 1,4 kg/m<sup>2</sup>/cm binder; approx. 19,0 kg/m<sup>2</sup>/cm ready mixed mortar
- 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 %
- Ready for foot traffic/drying time:
  - approx. 12 hours at 20 °C floor temperature
  - approx. 18 hours at 15 °C floor temperature
- Reaction to fire: B<sub>fl</sub>-s1

All values are approximate and are subject to climatic fluctuations.

# SCHÖNOX® EPM

## Storage

- Store SCHÖNOX EPM in cool, dry, frost-free conditions. (ideal storage temperature 10 - 20 °C). Before working bring up to room temperature.
- Storage life of 2 years (in closed packaging).
- SCHÖNOX EPM can be transported up to -20 °C for max. 7 days.

## 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.

## EMICODE

- EC 1<sup>PLUS</sup>: very low emission

## GISCODE

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

## EPD - Self-declaration

Sika Deutschland GmbH declares that the product fulfills the criteria for reactive 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 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-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.
- To wear suitable personal protective equipment is necessary in any case. Please, find details on in the safety data sheet, chapter 8.
- Wear suitable gloves e.g. from nitrile. Recommendation of KCL, Germany: Vitoject 890 material thickness 0,70 mm); max. wearing time: 4 - 8 hours.

## 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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