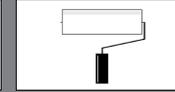
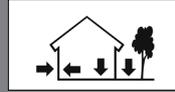


# SCHÖNOX® GEA

## Epoxy-based damp proof membrane

for priming absorbent and non absorbent substrates. Primer coat for levelling compounds and thin-bed adhesives. Also suitable as binder for reaction resin repairing mortars. For interior and exterior use.



### Product characteristics

- EMICODE EC 1<sup>PLUS</sup>: very low emission
- waterfree
- solvent-free
- good penetration
- can be applied to almost all substrates
- grip promoting
- suitable for application on subfloor heating systems
- for interior and exterior use
- watertight
- high resistance to chemicals

### Applications

#### SCHÖNOX GEA is suitable:

- on absorbent and non absorbent substrates
- as a repairing mortar for filling holes and deepenings
- as a binder to make an anti-capillary filling

### Substrates

#### SCHÖNOX GEA is suitable on:

- concrete
- lightweight concrete
- cement and rapid cement screeds
- calcium sulphate based screeds
- old substrates such as ceramic tiles, natural stones and terrazzo
- mastic asphalt screeds (completely sanded) AS IC 10 and AS IC 15 according to EN 13813
- insufficient sanded mastic asphalt screeds
- magnesia screeds
- xylolite screeds
- leftovers of water soluble adhesives and levelling compounds (e.g. based on spent sulphite liquor)
- old substrates with old water-resistant adhesive residues

### 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 levelling compounds as required.
- Old, loose and weak levelling layers should be removed mechanically.
- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed. Remaining adhesive residues should be primed with SCHÖNOX GEA.
- Old water-resistant adhesives are to be mechanically removed as far as possible.
- Old, ceramic coverings should be firmly laid, thoroughly cleaned and abraded.
- Rooms in buildings without a basement, are to be sealed against rising dampness in compliance with the standard.
- Gypsum screeds should be grinded and vacuumed prior to further treatment.
- The resistance of the substrate must comply with the expected dynamic, static and thermal stresses.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

### Mixing ratio

#### Use as primer (parts by weight):

- 2 : 1 (resin : hardener)

#### Use as resin based mortar (parts by weight):

- 2 : 1 (resin : hardener)
- 1:12,5 (mixed epoxy material : SCHÖNOX QUARZSAND 0,5 - 1,0 mm or SCHÖNOX QUARZSAND 0,1 - 3,0 mm)

### Technical data

- Basis: 2-component epoxy resin
- Pot life: approx. 30 minutes at +20 °C
- Ready for foot traffic: after approx. 16 hours
- Application temperature: not below +10 °C
- Material consumption:
  - as a primer approx. 200 - 300 kg/m<sup>2</sup>
  - as a reaction resin mortar approx. 1,4 kg/m<sup>2</sup>/cm binder; approx. 19 kg/m<sup>2</sup>/cm ready mixed mortar

All values are approximate and are subject to climatic fluctuations.



# SCHÖNOX® GEA

## Recommended method of working

### General

- Thoroughly mix the SCHÖNOX GEA resin component (A) with the SCHÖNOX GEA 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.

### Application as primer

- The substrate temperature should not be below 10 °C during priming and coating.
- Add the hardener component (B) to the resin component (A) (Mixing ratio 2 parts in weight component A : 1 part in weight component B) and mix it thoroughly.
- 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.
- Earliest after 16 hours, respectively after hardening sweep the exceeded sand off. Hereafter vacuum clean with an efficient industrial vacuum cleaner.
- Instead of sanding, SCHÖNOX GEA can be primed in the drying phase with SCHÖNOX SHP.

**Exception: Class B according to abP (permanently wet areas like swimming pools)**

### Application as repairing mortar

- SCHÖNOX GEA can be mixed with SCHÖNOX QUARZSAND 0 - 3 mm in a ratio of 1:12,5 in parts per weight (1,334 kg comp. A + 0,666 kg comp. B + 25 kg SCHÖNOX QUARZSAND 0 - 3 mm). Add the homogenous mixed binder SCHÖNOX GEA to the silica sand and mix thoroughly.
- Place the material in the suitable substrates to fill and compress. Prime

highly absorbent substrates with SCHÖNOX GEA. The application of the mortar must be carried out in the fresh phase of the primer.

- After drying (min. 12 hours at 20 °C) before applying levelling compounds or tile adhesives prime the mortar with SCHÖNOX SHP.

## Packaging

- 4,5 kg combined packaging composed of:
  - 3,0 kg component A (resin)
  - 1,5 kg component B (hardener)

## Storage

- Store SCHÖNOX GEA in cool, dry, frost-free conditions.
- Storage life of 2 years (in closed packaging).
- SCHÖNOX GEA 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.

## GISCODE

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

## EPD - Self-declaration

Sika Deutschland GmbH declares that the product fullfills 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.
- Product contains epoxy resin. This may act corrosive to the skin and may cause sensitization.
- 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 viton. Recommendation of KCL, Germany: VITOJECT 890 (material thickness 0,70 mm); max. wearing time: 1 hour.

## Instructions

- All values are approximate and are subject to local climatic fluctuations.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- 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.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.

# SCHÖNOX® GEA

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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