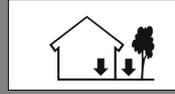


SCHÖNOX® EP DRAIN

Epoxy resin bonded thin-bed drainage

on bonded sealings for the laying of ceramic coverings and natural stones with the thin-bed method on balconies and terraces. Dewateres the thin-bed and avoids backwater and water retentions in hollows. Component of the SCHÖNOX BALTERRA®-system.



Product characteristics

- EMICODE EC 1^{PLUS}: very low emission
- approved by the building authorities
- for interior and exterior use
- drainage capable
- aggregate: SCHÖNOX MONOKORN 2 - 3 mm
- low tension/stress
- frost resistant
- prevents exudation marks
- non alkaline
- thermal resistant
- solvent-free
- resistant to frost and de-icing salt
- highly loadable
- component of the systems: SCHÖNOX BALTERRA® EP DRAIN and SCHÖNOX BALTERRA® EP DRAIN MAX
- for filling screed cracks

Applications

SCHÖNOX EP DRAIN is suitable as a thin-bed drainage on SCHÖNOX bonded sealings on balconies and terraces under:

- ceramic coverings
- natural stones

Substrates

SCHÖNOX EP DRAIN is suitable on:

- cementitious bonded sealings
- resin based bonded sealings
- Sealing sheet SCHÖNOX AB

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.
- If an adequate fall (min 1.5 %) is missing, it has to be build under the membrane by a bonded screed.
- The composite bonded sealing be cured.

- As an alternative on balconies and terraces (except roof-terraces) SCHÖNOX AB can be used as bonded sealing.

SCHÖNOX AB:

- Pay attention to the product data sheet.
- Lay SCHÖNOX AB lengthwise to the slope and not crosswise. This ensures that drained water is not retained at splicings.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

Mixing ratio

Use as resin based mortar (parts by weight):

- 2 : 1 (resin : hardener)
- 1,5 : 25 (mixed epoxy material : SCHÖNOX MONOKORN 2-3 mm)

Recommended method of working

- Mix only the entire contents of a bucket (not partial quantities) to a homogeneous compound.
- Thoroughly mix the SCHÖNOX EP DRAIN resin component (A) with the SCHÖNOX EP DRAIN 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.
- As a mixer a helicon rubber stirring rod is suitable.
- This SCHÖNOX EP DRAIN-mixture (1,5 kg) is sufficient as binder for 25 kg SCHÖNOX MONOKORN 2 - 3 mm.
- Thereafter put 25 kg SCHÖNOX MONOKORN 2 - 3 mm in a sufficient big mixing vessel or in a SCHÖNOX mixing bucket
- Add mixed SCHÖNOX EP DRAIN epoxy resin (1.5 kg) to the SCHÖNOX MONOKORN 2 - 3 mm and stir homogeneous using a mixer as long till the

Technical data

- Basis: 2-component epoxy resin
- Pot life: approx. 60 minutes at +20 °C
- Ready for foot traffic: after approx. 16 hours
- Ready for covering: after approx. 16 hours
- Application thickness: min. 10 mm (set EP DRAIN SPECIAL PULL-OFF-BAR spacer on 12 mm)
- Application temperature: +10 °C to +35 °C
- Material consumption: approx. 1,25 kg ready-mixed material per m²/mm
- Reaction to fire: B_{fl}-s1
- Drainage/water conductivity: 0,015 l / (m x s)

All values are approximate and are subject to climatic fluctuations.



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whole aggregate is wetted. This is visible by a gloss effect.

- Spread the ready mixture onto the substrate and level with the SCHÖNOX EP DRAIN SPECIAL STRAIGHTEDGE with distance pieces. To have a minimum thickness of 10 mm after levelling and smoothing, adjust the distance pieces to 12 mm. Level only as much material as you can reach with your arms to smooth with a smoothing trowel.
- Machine smoothing is not necessary.
- Protect setting thin-bed drainage layers against direct exposure to rain.
- Laying of ceramic tiles or of the suitable natural stones should be done with the tile adhesives: SCHÖNOX Q12, SCHÖNOX Q6, SCHÖNOX Q6 W, SCHÖNOX Q4 RAPID according to the buttering method.
- The tiles are laid using the buttering method. Take care that joints are free of adhesive, because this improves the de-watering of the covering. If needed rake-out the joints.
- The grouting should be done with the fast universal flexible grouting mortar SCHÖNOX SU or with the mechanical high loadable grouting mortar SCHÖNOX XR 40. For porous natural stones and natural stones with sensitive surface we recommend a test grouting.
- Subdivide field sizes according to the DIN 18560 and to the ZDB-leaflet "Floor covering from tiles and slabs, exterior".
- For application in the SCHÖNOX BALTERRA® MAX SYSTEM ask for additional information.

Use as a repairing mortar to close screed cracks force-locked:

- For powerful closing of cracks in the screed: widen the crack. Depending on length of the crack, geometry and load of substrate, each 20 cm cut in crossways and put in a screed renovation clip. Close with SCHÖNOX EP DRAIN and sand with SCHÖNOX QUARZSAND (0,1 - 0,4 mm) excessively during the wet phase. Do not load the crack until it is hardened.

- SCHÖNOX EP DRAIN is extendable with SCHÖNOX QUARZSAND (0,1 - 0,4 mm).
- Screed clips are available from specialist dealers.

Packaging

- 1,5 kg box composed of:
 - 1,0 kg component A (resin)
 - 0,5 kg component B (hardener)
- 25.0 kg SCHÖNOX MONOKORN 2-3 mm

Storage

- Store SCHÖNOX EP DRAIN in cool, dry, frost-free conditions.
- Storage life of 2 years (in closed packaging).
- SCHÖNOX EP DRAIN can be transported up to -20 °C for max. 7 days.

Disposal

- Empty canisters of all drops and dispose of in accordance with the regulations.
- 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

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
- 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.
- 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.
- 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.

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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

Sika Deutschland GmbH

Subsidiary Rosendahl

P.O. Box 11 40

D-48713 Rosendahl / Germany

Phone +49 (0) 2547-910-0

Fax +49 (0) 2547-910-101

E-mail: info@schoenox.de

www.schoenox.com