

### Normal setting, grouting mortar

for grouting narrow and wide joints of stoneware, fully vitrified tiles, split clinker, floor quarry, cladding faience tile of brick size etc. with low absorbent and non-absorbent shards. Also suitable for cotto, natural and cast stone tiles. For internal and external application.

### Product characteristics

- EMICODE EC 1<sup>PLUS</sup> R: very low emission, regulated
- fulfills CG2 WA requirements according to EN 13888
- water-resistant
- frost resistant
- slurry
- very smooth application
- flexible
- water repellent
- diffusion permeable
- ideal for vitrified tiles
- suitable for application on subfloor heating systems
- hardening without cracks
- workable with the rubbing in iron method on small areas
- low in chromate according to REACH

### Applications

**SCHÖNOX SB FLEX is suitable for grouting of:**

- fully vitrified tiles
- stoneware tiles
- split clinker flags
- floor quarry
- cotto
- cast stone tiles
- artificial stone tiles
- natural stones not sensitive to discolouration

**SCHÖNOX SB FLEX is suitable for grouting:**

- for walls and floors
- on balconies and terraces
- in normal loaded commercial areas

In case of chemical load use SCHÖNOX epoxy grout mortar.

Surfaces often cleaned by using high-pressure cleaners or acidic cleaning agents should be grouted with SCHÖNOX CF or SCHÖNOX XR 40.

By grouting on non-slip or rough-surfaced floorings as well as fully vitrified tiles, the remaining bloom must

be carefully removed being still fresh (carry out a trial grouting as well as a trial cleaning).

By open-pored coverings such as e.g. Cotto and hand mould tiles use a joint protector (e.g. Möller Chemie, Fila, Patina Fala, Stingel Chemie).

In case of polished vitrified tiles, colour pigments can adhere to the micropores in the surface of the slabs. A strong colour contrast between the tiles and the grouts should be avoided.

If there is no information about grouting or pre-treatment of the tiles on the packaging, we recommend asking the manufacturer about factory pre-treatment. In case no factory pre-treatment is existent or in case of doubt a trial grouting has to be carried out, respectively a cleaning agent manufacturer has to be contacted concerning grouting assistance / impregnation.

### Requirements of substrate

- Flanks of joints must be clean and free of separating substances.
- Immediately after laying, raking-out the joints to tile thickness evenly.
- The point for grouting tiles laid according to the thin-bed method is depending on the used thin-bed mortar and is in-between 3 and 24 hours.
- Using the thick-bed method, the mortar must be sufficiently hard and dry.
- The requirements of DIN 18 352 are applicable.

### Mixing ratio

Slurry method:

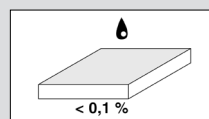
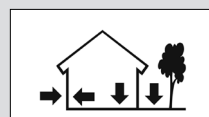
- For 15 kg SCHÖNOX SB FLEX approx. 3,1 l water
- For 5,0 kg SCHÖNOX SB FLEX approx. 1,0 l water

Jointer method:

- For 15 kg SCHÖNOX SB FLEX approx. 1,6 l water
- For 5 kg SCHÖNOX SB FLEX approx. 0,5 l water

### Technical data

- Pot life: approx. 2 hours at +20 °C
- Ready for foot traffic: after approx. 12 hours
- fully loadable: after approx. 7 days.
- Application temperature: not below +5 °C
- Joint width: from 2 to 20 mm
- Material consumption: 0,4 - 4,0 kg/m<sup>2</sup>, depending on tile size and size of the grout
- Colour: available in various colors
- Temperature resistance: -20 °C up to +80 °C



### Recommended method of working

- Using a clean receptacle, add SCHÖNOX SB FLEX to cold clean water to form a homogeneous mixture. Use of a mixer with 600 rpm is recommended.
- The grout mortar is deeply inserted into the grout with a slurry consistency using a rubber squeegee, sponge board, hand sponge or grout float.
- To achieve an optimum filling of the joint, repeat the grouting, avoid to powder the joints.
- After the grout mortar starts setting (finger test) use a sponge board for washing the outlines and cleaning.
- For clean and rapid grouting we recommend using a grouting box.

### Packaging

- 15.0 kg paper sack
- 5.0 kg paper sack (4 pieces per unit)

### Storage

- Store SCHÖNOX SB FLEX in cool, dry conditions.
- Storage life of 18 months (in closed packaging).
- Opened bags should be closed immediately and used up as soon as possible.

### 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> R: very low emission, regulated

### GISCODE

- ZP1 - cement products, low in chromate

### EPD - Self-declaration

SCHÖNOX GmbH declares as a statutory member of Deutsche Bauchemie and Industrieverband Klebstoffe that the product fulfills the criteria for modified mineral mortars of group 1.

### ENVIRONMENTAL PRODUCT DECLARATION

acc. to ISO 14025 and EN 15804

#### Owner of declaration

Deutsche Bauchemie e.V.  
Industrieverband Klebstoffe e.V.  
Verband der deutschen Lack- und Druckfarbenindustrie e.V.

#### Editor

Institut für Bauen und Umwelt e.V. (IBU)

#### Program owner

Institut für Bauen und Umwelt e.V. (IBU)

#### Number of declaration

EPD-DIV20130096-IBE1-DE

#### Date of issue

30.07.2013

#### Valid until

29.07.2018

### Instructions

- Protect ceramic coverings during and after grouting against direct sunlight and draughts.
- Clean tools in water immediately after use.
- All values are approximate and are subject to local climatic fluctuations.
- All information applies to standard conditions.
- SCHÖNOX SB FLEX contains cement. Alkaline reaction when it comes in contact with moisture, therefore protect skin, eyes and respiratory system. Do not breathe in dust. In case of contact rinse immediately with plenty of water. In case of contact with eyes seek additional medical advice.
- Uneven effects of moisture caused by, e.g. the substructure, mortar bed or covering may result in colour shading in the structure of the grouts. This does not effect the quality of the grouting material and may increasingly normalize if the environmental conditions are good. We do not accept any warranty for differences in the colour tone.
- The use of SCHÖNOX SB FLEX does not replace the necessity for sealing measures.

- When selecting the grouting, we recommend always observing the water-absorption capacity of the ceramics as well as the specifications of the ceramics manufacturer.
- Slight colour deviations are possible. Therefore use only grout mortar with the same lot number on the same object.
- For care and cleaning of the grouted surfaces, we recommend only using neutral cleaning agents. After cleaning, the surface should be rinsed with clear water.
- The grouting with SCHÖNOX SB FLEX is not acid-proof. Acidic cleaners that are made using, e.g. citric acid, acetic acid or other acids may lead to long-term damages to the grout. Therefore cleaning preferably should be done by using neutral or slightly alkaline cleaning agents. When using these cleaning agents, observe the instructions of the manufacturer and avoid overdosing. Improper cleaning voids the warranty.
- The surfaces should be wetted before using acidic cleaning agent in order to close the pores with water. After cleaning, the surfaces should be rinsed with water to neutralise them.
- Areas which are grouted with SCHÖNOX SB FLEX can be cleaned with household steam cleaners (without using scrubbers) 7 days after grouting.
- For grouting vitrified tile and split clinker and so on in swimming pools, we recommend the cement based, highly loadable grouting mortar SCHÖNOX XR 40.

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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