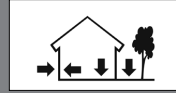


SCHÖNOX® CF DESIGN

Epoxy resin colour grouting compound

especially for grouting visually appealing, decorative tiles and mosaics, as well as coverings for glass mosaic. Furthermore for the waterproof, frostproof and chemically resistant bonding and grouting of ceramic tiles in the food, confectionery and chemical industries, laboratories and swimming pools. Joint width 1 to 10 mm. Fulfills RG-requirements according to DIN EN 13888 and R2-requirements according to DIN EN 12004. For internal and external application.



Product characteristics

- EMICODE EC 1^{PLUS}: very low emission
- excellent color by color sands and ceramic pigments
- fulfills RG requirements according to EN 13888
- fulfills the R2 requirements according to EN 12004
- solvent-free according to TRGS 610
- no water absorption according to DIN 12808-5
- for visually demanding grouting
- very smooth application
- especially for bonding and grouting visually decorative glass mosaic
- easy to keep clean with cold water, hydro-sponge and SCHÖNOX EPOXY CLEAN
- no discoloring of the grouts of ceramic tiles and mosaic
- especially against modern, acid detergent resistant
- easy to use, even with profile-faced tiles
- water and dirt repellent
- highly fillable
- frost resistant
- resistant to chemical loadings
- very high strength
- high adhesion to flanks
- hardening without cracks
- can be emulsified in water
- suitable for application on subfloor heating systems

Applications

SCHÖNOX CF DESIGN is suitable for grouting of:

- fully vitrified tiles
- Glassmosaic
- glass tiles
- stoneware tiles
- earthenware tiles

SCHÖNOX CF DESIGN is suitable for decorative and resistant bonding and grouting:

- of glass mosaic wall and floor surfaces
- in high-quality, heavy-duty wet areas (bath-rooms, in-line shower systems)
- of wall and floor coverings in steam baths and spa areas
- in swimming pools with normal, thermal or sea water

SCHÖNOX CF DESIGN is suitable for chemical resistant bonding and grouting

- in slaughterhouses, dairies and breweries
- for catering kitchens, car washes and cold storage houses
- in the food- and beverage industry
- in chemical companies, laboratories, warehouses and factory buildings
- in the paper-, leather- and textile industry
- for walls and floors for interior and exterior use

For porous materials and sensitive surfaces of coverings a test grouting should be carried out.

Unsuitable for ceramic coverings in drinking water reservoirs.

Requirements of substrate

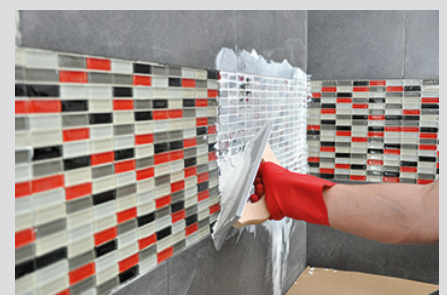
- Adequate strength, evenness, dimensional stability and dryness.
- Free of residues which reduce adhesion, e.g. dust, dirt, oil, grease, wax, cleaning agents and loose particles.
- Mortar should be hardened and sufficiently dry before grouting.

As used as tile adhesive on cementitious substrates:

- Subfloors must be smooth, sound, clean, dry and free of any contaminants which may hinder adhesion.
- Free of residues which reduce adhesion, e.g. dust, dirt, oil, fat and loose particles.

Technical data

- Basis: 2-component epoxy resin
- Pot life: approx. 40 minutes at +20 °C
- Ready for foot traffic: after approx. 16 hours
- Chemical resistant: after approx. 7 days
- Application temperature: +10 °C to +25 °C
- Temperature resistance: completely cured -25 °C to +80 °C
- Colour: available in various colors
- Joint width: from 1 to 10 mm
- Material consumption: 0,3 - 3,2 kg/m², depending on tile size and size of the grout
- Material consumption (tile adhesive): with 4 mm notched trowel approx. 2,20 kg/m² with 6 mm notched trowel approx. 3,00 kg/m² with 8 mm notched trowel approx. 3,60 kg/m²



SCHÖNOX® CF DESIGN

- Surface treatments or any "friable" areas of the subfloor must be mechanically removed and the subfloor repaired with SCHÖNOX leveling compounds as required.
- Substrate should fulfill the requirements of DIN 18 202, tolerances in building constructions.
- The requirements of DIN 18 157 are applicable.
- With subsequent installation of ceramic coverings, cement screeds are required to be at least 28 days old. Cement heating screeds are required to display a residual moisture reading of ≤ 2.0 CM-%.
- concrete (at least 6 months old)
- The requirements of the relevant valid standards, guidelines and data sheets apply.

Recommended method of working

- Thoroughly mix the SCHÖNOX CF DESIGN resin component (A) with the SCHÖNOX CF DESIGN 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.
- Repot the mixed material and mix shortly again.
- Mix only the entire contents of a bucket (not partial quantities) to a homogeneous compound.
- Mixing and processing of SCHÖNOX CF DESIGN should preferably take place at +15 °C (room, surface and subsurface temperature) may be cool in a water bath or heat packs.
- The grout mortar is deeply inserted into the grout using a special grouting board.
- Remove excess material with the special grouting board so that only a thin film is left on the tile.
- We recommend the SCHÖNOX EPOXY TOOLBOX for professional application.
- For emulsify and cleaning the tile surface can be use cold water and a hydro-sponge. On smooth ceramic surfaces, a pad is not required.

- Spraying a film of water with a spray bottle makes emulsification easier. Depending on the tile surface, 1 measuring spoon of SCHÖNOX EPOXY CLEAN can be added to 7.5 l of water for emulsification.
- Excess water from the emulsifying with the hydro-sponge. Wash out the sponge well and change regularly.
- For the final cleaning use fresh, clean, cold water and a new hydro-sponge. Add 1-2 measuring spoons of SCHÖNOX EPOXY CLEAN to 7.5 l water for final cleaning. It is possible to spray the cleaning agent on the surface with a spray bottle before. Change the water regularly.
- Inspect the cleaned surface for residues immediately after drying and clean if necessary.
- No water shall be left standing on freshly grouted joints.
- If necessary, remove any remaining veils the next day with SCHÖNOX EPOXY CLEAN. Add 3-4 measuring spoons of SCHÖNOX EPOXY CLEAN to 7.5 l water. If necessary, a hard sponge or a white pad may help.

Used as a tile adhesive:

- SCHÖNOX CF DESIGN is also recommended where glass/translucent/stone-ware mosaics are being fixed on walls and floors. SCHÖNOX CF DESIGN is suitable for fixing ceramic tiles etc. on floors. For fixing ceramic tiles on walls SCHÖNOX KR (epoxy-based adhesive) is recommended.
- Do not mix more material than can be handled within 40 minutes.
- The mortar is to be applied and combed off using a suitable notched trowel. The material to be laid is inserted and pressed into the fresh bed of adhesive while it is still wet. Remove mortar residues.
- SCHÖNOX CF DESIGN is suitable for application with the floating-, the buttering- and floating-buttering method according to DIN 18 157.
- For laying large-sized tiles and labs, pay attention to the valid basic rules and standards. For laying thin-layer

ceramic tiles (< 7.5 mm) please obtain special information.

- Old ceramic coverings should be thoroughly cleaned (black pad) and probably abraded.
- For the laying of tiles over tiles on walls, we recommend to apply a scratch coat

Additional laying recommendations:

- Do not use for natural stones sensitive to discolouration, because discolouration can not be excluded.
- To increase the sliding properties with heavy tiles SCHÖNOX STELLMITTEL can be added to SCHÖNOX CF DESIGN. The application is described in Instructions.

Packaging

- 5,0 kg combined packaging composed of:
 - 4,738 kg component A (resin)
 - 0,262 kg component B (hardener)
- 2,5 kg combined packaging composed of:
 - 2,369 kg component A (resin)
 - 0,131 kg component B (hardener)

Storage

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

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.

SCHÖNOX® CF DESIGN

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.
- 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: CAMATRIL 730 material thickness 0,40 mm); max. wearing time: 8 hours.

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- Protect ceramic coverings during and after grouting against direct sunlight and draughts.
- High temperatures accelerate, low temperatures decelerate the working and curing process.
- SCHÖNOX CF DESIGN is no displacement for a bottom sealing according the norm.
- Clean tools in water immediately after use. Hardened material can only be removed mechanically. Although keep in mind occupational safety.
- Glass tiles or glass mosaic with back coating without product information should be checked for resistance of the coating against epoxy resin.
- If in swimming pools chlorine-free water disinfection methods res. disinfectants or active oxygen methods are used, we recommend to use SCHÖNOX XR 40 / SCHÖNOX SF DESIGN.
- Swimming pool: Before filling, ensure that the pool surface is thoroughly cleaned and disinfected. Initially fill the pool with a higher chlorine level.
- To ensure hygienically perfect conditions in the swimming pool, proper disinfection and treatment of the swimming pool water must be ensured.

SCHÖNOX STELLMITTEL

Basis: High density polyethylene fiber.
Mixing ration: 0,4 to 0,8 wt.-% for 2,5 kg or rather 5,0 kg SCHÖNOX CF

DESIGN.(2,5 kg= 0,4 wt.-% correspond to 10 gram or approx. 5 heaped table-spoons / 0,8 wt.-% correspond 20 gram or approx.10 heaped tablespoons) (5,0 kg= 0,4 wt.-% correspond 20 gram or approx. 10 heaped tablespoons / 0,8 wt.-% correspond 40 gram or approx. 20 heaped tablespoons). Range of application: SCHÖNOX STELLMITTEL is suitable for increasing the sliding properties of SCHÖNOX CF DESIGN when used as an adhesive mortar. Instruction to use: SCHÖNOX STELLMITTEL is the last component added to the homogeneously mixed reaction resin and mixed homogeneous with a slowly rotating drill at the maximum 300 rpm. Storing: Cool, dry and frost- free. Shelf life: 2 years unopened. Disposal: Empty packaging completely and dispose of in accordance with federal, state and local waste disposal regulations.

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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