

SCHÖNOX® CON BODEN

Product data sheet

Epoxy resin concentrate

to form a grouting and bonding mortar for chemical resistant and dense grouting under extreme conditions of ceramic floor tiles particularly in major architectural projects i.e. swimming baths, catering kitchens, breweries, dairies, laboratories, chemical works, industrial factories and traffic structures. Joint width 1 to 10 mm. Fulfills RG-requirements according to DIN EN 13888 an R2 T-requirements according to DIN EN 12004. For internal and external application.

Product characteristics

- fulfills RG requirements according to EN 13888
- fulfills the R2 T requirements according to EN 12004
- two-component reaction resin system
- frost resistant
- resistant against ageing
- high chemical resistance (see list of resistance characteristics)
- very high strength
- easy to keep clean
- exceptional durability
- easy to use, even with profile-faced tiles
- can be easily emulsified in water
- suitable for application on subfloor heating systems
- solvent-free according to TRGS 610
- fulfills the requirements of DVGW leaflet W 270 "Increase of microorganism on materials in drinking water areas" in combination with SCHÖNOX 2K DS RAPID and SCHÖNOX CFK PLUS

Applications

SCHÖNOX CON BODEN is suitable for chemical resistant bonding and grouting

- in swimming pools with normal, thermal or sea water
 - 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
 - in shipbuilding
 - for ceramic floors for interior and exterior use
- For porous materials and sensitive surfaces of coverings a test grouting should be carried out.

Requirements of substrate

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

As used as tile adhesive on cementitious substrates:

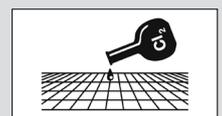
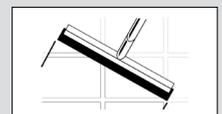
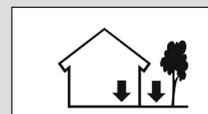
- Subfloors must be smooth, sound, clean, dry and free of any contaminants which may hinder adhesion.
- Free of residues which reduce adhesion, e.g. dust, dirt, oil, fat and loose particles.
- Surface treatments or any "friable" areas of the subfloor must be mechanically removed and the subfloor repaired with SCHÖNOX levelling 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.

Mixing ratio

Slurry method as well as adhesive:
4,42 kg component A (resin)
1,08 kg component B (hardener)
ca. 8,00 kg SCHÖNOX QUARZSAND 0,1 - 0,4 mm
total weight approx. 13.50 kg

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: not below + 10 °C
- Temperature resistance: completely cured -25 °C to +80 °C
- Joint width: up to 10 mm
- Material consumption: 200 - 600 g/m² (plus silica sand), depending on tile size and size of the grout
- Material consumption (tile adhesive): with 4 mm notched trowel approx. 2,4 kg/m²
with 6 mm notched trowel approx. 3,2 kg/m²
with 8 mm notched trowel approx. 4,0 kg/m²
- Color: grey



Recommended method of working

- Thoroughly mix the SCHÖNOX CON BODEN resin component (A) with the SCHÖNOX CON BODEN 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.
- SCHÖNOX QUARTZ SAND (0.1 - 0.4 mm) or a similar quartz sand (washed and furnace gas dried) is added as the last component.
- Mixing and processing of SCHÖNOX CON BODEN should preferably take place at +15 °C (room, surface and sub-surface 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. SCHÖNOX CON BODEN can also be inserted with a grouting machine (e.g. Hexa) or a compressed air injector.
- Emulsify any residues of materials using pads. Wash the joints smooth and clean the floor covering with a sponge board and cleaning sponge. Warm water makes cleaning easier.
- Inspect the cleaned surface for residues immediately after drying.

Used as a tile adhesive:

- 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 CON BODEN is suitable for application with the floating-method according to DIN 18 157.
- For laying large-sized tiles and labs, pay attention to the valid basic rules and standards.

Additional laying recommendations:

- Do not use for natural stones sensitive to discolouration, because discolouration can not be excluded.

Packaging

- 5,50 kg box composed of:
 - 4,42 kg component A (resin)
 - 1,08 kg component B (hardener)
- 25.0 kg SCHÖNOX QUARZSAND 0.1-0.4 mm

Storage

- Store SCHÖNOX CON BODEN in cool, dry, frost-free conditions.
- Storage life of 2 years (in closed packaging).
- SCHÖNOX CON BODEN 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 1 - epoxy resin product solvent free, sensitising

EPD - Self-declaration

SCHÖNOX GmbH declares as a statutory member of Deutsche Bauchemie and Industrieverband Klebstoffe that the product fullfills the criteria for tile adhesives based on epoxy resins, filled or aqueous, filled with high content of fillers.

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

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Date of issue

18.11.2012

Valid until

17.11.2017

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.
- 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: DERMATRIL 740 material thickness 0,11 mm); max. wearing time: 8 hours.

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- The stated mixing ration with silica sand are appr. values.
- A change of the mixing ratio effects the viscosity.
- Protect ceramic coverings during and after grouting against direct sunlight and draughts.
- Let cool down through sunlight highly warmed-up areas before grouting.
- High temperatures accelerate, low temperatures decelerate the working and curing process.
- SCHÖNOX CON BODEN should only be mixed with the aforementioned materials for extension.
- As a ready mixed epoxy resin based grouting mortar we recommend SCHÖNOX CF DESIGN.
- Clean tools in water immediately after use. Hardened material can only be removed mechanically. Although keep in mind occupational safety.

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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

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