

Construction- and tile adhesive

for laying of ceramic tiles, slabs, mosaic and split clinker flags according to the thin-bed method. For bonding of aerated concrete and masonry. Meets requirements of the EN 12004 C1 TE. For interior and exterior use.

Product characteristics

- EMICODE EC 1^{PLUS} R: very low emission, regulated
- fulfills the C1 TE requirements according to EN 12004
- frost resistant according to EN 12004
- water-proof according to EN 12004
- synthetic resin-modified
- possible to level out
- sturdy
- long open time
- low in chromate according to REACH

Applications

SCHÖNOX Q1 is suitable for setting with the thin-bed-method according to DIN 18 157 of:

- ceramic coverings
- earthenware tiles
- stoneware tiles
- stoneware mosaic
- coarse-ceramic
- split clinker flags and floor quarry
- suitable soft and construction boards
- aerated concrete and masonry

Substrates

SCHÖNOX Q1 is suitable on:

- concrete (at least 6 months old)
- aerated concrete
- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength $\geq 2,5$ N/mm²)
- masonry
- suitable construction boards
- cement and rapid cement screeds
- On floors in exterior areas, and in combination with bonded sealings and/or thin-bed drainages (e.g. SCHÖNOX 2K DS RAPID, SCHÖNOX EP DRAIN or SCHLÜTER DITRA-DRAIN) adhesive layer thickness max. 5 mm for floating- or floating- and the buttering-floating-method. Regarding the BALTERRA[®]-combination with SCHÖNOX EP DRAIN: SCHÖNOX Q12, SCHÖNOX Q6, SCHÖNOX

Q6 W and SCHÖNOX TT S8 are recommended.

- The mid-bed or thick-bed method in the BALTERRA[®]-combination is recommended with SCHÖNOX MSE, SCHÖNOX Q6 und SCHÖNOX Q6 W. For supporting the functionality of the drainage in the joint area, the buttering-method has to be used.
- The product data sheets of the system-products have to be respected.

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.
- Substrate should fulfill the requirements of DIN 18 202, tolerances in building constructions.
- The requirements of DIN 18 157 are applicable.
- Cement screeds are required to display a residual moisture reading of ≤ 2.0 CM.
- Old brickwork and plaster should be solid and air-dried.

Priming

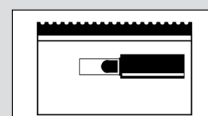
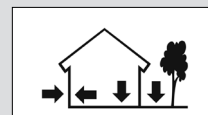
■ **normal absorbent substrates such as:**

- cement screeds
- rapid cement screeds
- cement plaster
- lime-cement plaster
- aerated concrete
- prime with SCHÖNOX KH (1:5) or SCHÖNOX KH FIX .
- concrete
- prime with SCHÖNOX KH (1:3) or SCHÖNOX KH FIX .

Technical data

- Pot life: approx. 3 hours at +20 °C
- Open time (EN 1346):¹ approx. 30 minutes
- Ready for foot traffic: after approx. 24 hours
- Ready for grouting: after approx. 24 hours in interior areas, at least after approx. 48 hours in exterior areas.
- Application (air) temperature: +5 °C to +30 °C
- Temperature resistance: completely cured -20 °C to +80 °C
- Material consumption (powder): with 6 mm notched trowel approx. 2,4 kg/m²
with 8 mm notched trowel approx. 2,9 kg/m²
with 10 mm notched trowel approx. 3,4 kg/m²

¹The open time is subject to temperature- and building site related variations. Therefore check the wetting properties of the applied tile adhesive with the finger.



Mixing ratio

- For 25,0 kg SCHÖNOX Q1 approx. 7,5 l water

Recommended method of working

- Using a clean receptacle, add SCHÖNOX Q1 to cold clean water to form a homogeneous mixture. Use of a mixer with 600 rpm is recommended.
- Do not mix more material than can be handled within 3 hours.
- 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.
- Unevenness up to 5 mm can be levelled with SCHÖNOX Q1.
- Material that has already been set cannot be re-mixed with additional water or powder.
- Immediately after use clean tools with water.
- SCHÖNOX Q1 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.
- The laying of ceramic tiles and slabs and natural stones on hollow floors without a screed as additional burden-sharing layer, should not be done without the approval of the planner for the hollow floor and the designated covering. It is to use a thin-bed mortar of the category C2 S1 with the buttering-floating method or a TT-floor adhesive of the category C2 S1 with flowing consistency. For sizes from 40/40 cm respectively from 60/30 cm also with TT-floor adhesives it is necessary to apply a contact layer on the backside of the tiles.

Grouting

For grouting of ceramic tiles with absorbent shards we recommend in case of joint width:

- from 1 to 6 mm SCHÖNOX WD FLEX

- from 1 to 12 mm SCHÖNOX UF PREMIUM

For grouting of ceramic tiles with low absorbent and nonabsorbent shards we recommend in case of joint width:

- from 1 to 12 mm SCHÖNOX UF PREMIUM
- from 2 to 20 mm SCHÖNOX SB FLEX
- from 2 to 40 mm SCHÖNOX XR 40

For grouting of natural stone tiles we recommend in case of joint width:

- from 1 to 12 mm SCHÖNOX UF PREMIUM
- from 3 to 15 mm SCHÖNOX SU

For grouting with chemical resistant joint filler we recommend in case of joint width:

- from 1 to 10 mm SCHÖNOX CF DESIGN
- from 1 to 10 mm SCHÖNOX CON BODEN
- from 2 to 40 mm SCHÖNOX XR 40

For building movement joints and field definition joints we recommend:

- SCHÖNOX ES respectively SCHÖNOX MES

Follow the relevant product data sheets.

Packaging

- 25.0 kg paper sack

Storage

- Store SCHÖNOX Q1 in cool, dry conditions.
- Storage life of 1 year (in closed packaging).
- Opened bags should be closed immediately and used up as soon as possible.

Disposal

- Empty packaging of all trickles 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} 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

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Date of issue

30.07.2013

Valid until

29.07.2018

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- SCHÖNOX Q1 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.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- Protect SCHÖNOX Q1 during the working process from high ambient temperatures, direct sunlight and draughts because the open time will strongly interact. Observe skin formation.
- For working in exterior areas basically the atmospheric conditions must be stronger considered. Protect the work

against imminent rainfalls with a suitable roofing.

- High temperatures accelerate, low temperatures decelerate the working and curing process.

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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