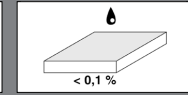
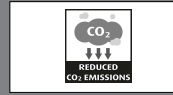




SCHÖNOX® Q20 HYBRID

Dust reduced hybrid adhesive

Special adhesive with long working time and fast drying, especially for large format tiles. SCHÖNOX Q20 HYBRID contains a variable adjustable consistency and prevents the sinking of heavy and large-sized ceramic coverings. The innovation on calcium sulfate based screeds with increased residual moisture! For interior areas. Ideal for large formats and large areas because of temperature-independent hardening from +5 C ° to +30 C °.



Product characteristics

- EMICODE EC 1^{PLUS}: very low emission
- appr. 90 % less dust while mixing
- tile adhesive for indoor areas according to EN 12004
- -45 % CO₂ Emissions
- on calcium sulfate screeds no priming required
- on cementitious screeds no priming required
- long workability time
- for interior use
- rapid hardening
- flexible
- variable adjustable consistency
- low tension/stress
- very smooth application
- layer-thickness up to 10 mm
- synthetic resin-modified
- high early strength
- possible to level out
- suitable for levelling uneven substrates
- suitable for application on subfloor heating systems
- long open time
- long adjusting time
- identification-free

Applications

SCHÖNOX Q20 HYBRID is suitable for setting with an almost complete surface wetting of the tiles as far as possible with the thin-bed-method according to DIN 18 157 part 1 of:

- fully vitrified tiles, especially large-sized
- ceramic coverings
- split clinker flags and floor quarry
- cotto
- moulded slabs
- natural, artificial and concrete stone slabs not sensitive to deformation
- natural-, artificial- and cast stone tiles not sensitive to discolouration
- SCHÖNOX Q20 HYBRID is also suitable for laying large format ceramic tiles in

combination with leveling systems on walls. Please ask for additional information.

- In areas of application in combination with SCHÖNOX sealing membranes are SCHÖNOX Q4 RAPID, SCHÖNOX Q6, SCHÖNOX Q6 W, SCHÖNOX Q8; SCHÖNOX Q9, SCHÖNOX Q9 W or SCHÖNOX Q12 be used.
- SCHÖNOX Q20 HYBRID do not use in wet rooms.

Substrates

SCHÖNOX Q20 HYBRID is suitable on:

- calcium sulphate based screeds
- cement and rapid cement screeds
- concrete (at least 6 months old)
- mastic asphalt screeds (sanded) AS IC 10 and AS IC 15 according to EN 13 813, layer-thickness 1 to 5 mm
- SCHÖNOX HS 50 (system self-levelling compound)
- dry screeds
- masonry
- aerated concrete
- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength $\geq 2,5 \text{ N/mm}^2$)
- gypsum plaster according to EN 13279-1, compression strength $\geq 2,5 \text{ N/mm}^2$; residual moisture $\leq 1,0 \text{ CM-}\%$)
- gypsum bricks (moisture content $\leq 5,0 \%$)
- gypsum board
- soft and construction boards
- 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, grease, wax, cleaning agents and loose particles.
- Separating, sintered layers and similar should be removed by suitable mechanical means.

Technical data

- Basis: special binder system with additives
- Pot life: approx. 60 minutes at +20 °C
- Open time (EN 1346):¹ approx. 30 minutes
- Ready for foot traffic: after approx. 4 hours
- Ready for grouting: after approx. 4 hours
- Application temperature: not below +5 °C
- Material consumption (powder): with 6 mm notched trowel approx. 2,2 kg/m²
with 8 mm notched trowel approx. 3,0 kg/m²
with 10 mm notched trowel approx. 3,8 kg/m²
with half-moon (20/13) notched trowel: approx. 4,8 kg/m²
- Reaction to fire: E

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.

Use a suitable notched trowel to achieve an ideal wetting of the tile. These tools are available e.g. from Karl Dahm & Partner GmbH, D-83358 Seebruck.



SCHÖNOX® Q20 HYBRID

- 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 floor coverings, cement screeds are required to display a residual moisture reading of $\leq 2,0$ CM-% (heating screeds $\leq 2,0$ CM-%), calcium sulphate screeds should have a reading of $\leq 1,0$ CM-% (heating screeds $\leq 1,0$ CM-%).
- The formats to be installed are for unheated and heated, calcium sulphate-based screeds with increased residual moisture up to ≤ 1.0 CM-% to a format size of max. 14.400 cm² (e.g. 120 x 120 cm).
- Prepare calcium sulfate screeds following the BEB leaflet „Hinweise zur Beurteilung und Vorbereitung der Oberfläche von Anhydritestrichen“.
- For laying on heating screeds pay attention to the leaflet ceramic tiles and slabs, natural and concrete stones on heated and unheated cementitious floor constructions as well as EN 1264, part 4. We recommend for heated floor constructions to pay attention to the professional information "Schnittstellenkoordination bei beheizten Fußbodenkonstruktionen" of the BVF. Basically, floor heating systems should be started up slowly after laying the ceramic tiles at the earliest after 7 days at room temperature.
- Do not mix more material than can be handled within 60 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 Q20 HYBRID is suitable for application with the floating-, the buttering- and floating-buttering method according to DIN 18 157.
- Material that has already been set cannot be re-mixed with additional water or powder.
- Clean tools in water immediately after use.
- For large-sized fully vitrified tiles > 50/50 cm or surface > 0,25 m² on floor surfaces we recommend using self levelling mortar for nearly cavity-free bonding especially on heated constructions. To improve the adhesion, we recommend applying a contact layer on the back of the tile for porcelain stoneware tiles > 50/50 cm or area > 0,25 m².
- For laying "large formats, large rectangular formats and mega formats", pay attention to the valid basic rules and standards. For laying thin-layer ceramic tiles (<7.5 mm) please obtain special information.
- Unevenness up to 10 mm can be levelled with SCHÖNOX Q20 HYBRID.
- We recommend SCHÖNOX HS 50 for full-surface levelling.
- For full-surface levelling with SCHÖNOX HS 50 the substrates are binding according to the requirements for substrate preparation, priming and residual moisture of the substrates according to the product data sheet SCHÖNOX HS 50! On full-surface levelling with SCHÖNOX HS 50 (ready for covering after approx. 6 hours) SCHÖNOX Q20 HYBRID can be used without primer.
- For laying natural stones sensitive to discolouration we recommend depending on the substrate and the covering: SCHÖNOX Q9 W.

Priming

- mastic asphalt screeds, insufficient sanded
- prime with SCHÖNOX SHP.

Mixing ratio

Flow-bed mortar:

- For 25,0 kg SCHÖNOX Q20 HYBRID approx. 4,0 - 5,0 l water

Recommended method of working

- Using a clean receptacle, add SCHÖNOX Q20 HYBRID to cold clean water to form a homogeneous mixture. Use of a mixer with 600 rpm is recommended.

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 10 mm SCHÖNOX SF DESIGN
- from 1 to 12 mm SCHÖNOX UF PREMIUM
- from 2 to 20 mm SCHÖNOX SB FLEX
- from 3 to 15 mm SCHÖNOX SU
- from 2 to 40 mm SCHÖNOX XR 40

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

- from 1 to 5 mm SCHÖNOX SF DESIGN
- 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 Q20 HYBRID in cool, dry conditions.
- Storage life of 1 year (in closed packaging).
- Opened packages should be closed immediately.

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.

SCHÖNOX® Q20 HYBRID

EMICODE

- EC 1^{PLUS}: very low emission

GISCODE

- CP1 - levelling compounds based on calcium sulphate

EPD - Self-declaration

- Sika Deutschland GmbH declares that the product fulfills the criteria of one Environmental Product Declaration acc. to ISO 14025 and EN 15804
- Declaration available for download at www.schoenox.com at SCHÖNOX Q20 HYBRID

Sustainability

- **CO2 emissions**
Causes less CO2 emissions compared to a conventional product.

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- Protect SCHÖNOX Q20 HYBRID during the working process from high ambient temperatures, direct sunlight and draughts because the open time will strongly interacted. Observe skin formation.
- 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

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