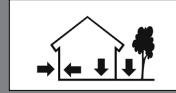




SCHÖNOX® Q9 W

White rapid setting, trass containing, flexible universal powder adhesive

especially for laying calibrated and non calibrated natural stones sensitive to discolouration, fully vitrified tiles, ceramic tiles and slabs as well as sheetings and hand made slabs by the thin-bed, mid-bed and thick-bed method. Suitable on walls and floors. Applicable as pourable mortar on floors. Optimised consumption because of the use of light-weight fillers. Fulfills the requirements for flexible mortars according to the guideline of Deutsche Bauchemie.



Product characteristics

- EMI CODE EC 1^{PLUS}: very low emission
- Meets the requirements of the Marine Equipment Directive (MED) 2014/90/EU
- fulfills the C2 FE S1 requirements according to EN 12004
- water-proof according to EN 12004
- frost resistant according to EN 12004
- highly synthetic-resin modified
- Q-TEC - 100% Safe Performance - variable mix
- with external official test certificate, proved with min. and max. addition of water
- variable adjustable consistency
- sturdy
- crystalline water binding
- hydraulic rapid hardening
- latent hardening binding agent
- contains trass
- very low consumption / very high coverage
- minimizes the risk of natural stone discolouration
- suitable for application on subfloor heating systems
- extreme tensile-, compression- and shear strength
- very smooth application
- possible to level out
- layer-thickness up to 30 mm
- safe application and multi-purpose use
- for interior and exterior use
- on many substrates no priming required
- low in chromate according to REACH
- fullfills the C2 FE S2 requirements according to DIN EN 12004 by adding a dispersion component, s. mixing ratio

Applications

SCHÖNOX Q9 W is suitable for setting with the thin- middle- thick- and flow-bed-method of:

- calibrated and non-calibrated natural stones sensitive to discolouration, as well as sheets
 - Jurassic and crystalline marble
 - magmatic stones
 - ceramic coverings
 - fully vitrified tiles, especially large-sized
 - split clinker flags and floor quarry
 - clinker one-quarter bricks
 - cotto
 - stoneware tiles
 - stoneware mosaic
 - earthenware tiles
 - hand-made slabs
 - glassmosaic (only in domestic areas)
- For large-sized, thin and calibrated natural stones we recommend requesting additional information because of possible sensitivity of deformation (dishing effect).

Substrates

SCHÖNOX Q9 W is suitable on:

- concrete (at least 3 months old)
- cement and rapid cement screeds
- calcium sulphate based screeds
- mastic asphalt screeds (sanded) IC 10 and IC 15 according to EN 13 813, layer-thickness 1 to 10 mm
- magnesia screeds
- SCHÖNOX water membranes
- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength $\geq 2,5 \text{ N/mm}^2$)
- masonry
- soft and construction boards
- gypsum board
- 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 $\leq 5,0 \%$)
- old ceramic coverings
- 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

Technical data

- Pot life: approx. 60 minutes at +20 °C
- Open time (EN 1346):¹ approx. 30 minutes
- Ready for foot traffic: after approx. 3 hours
- Ready for grouting: after approx. 3 hours
- Application temperature: not below +5 °C
- Temperature resistance: completely cured -20 °C to +80 °C
- Material consumption (powder): with 4 mm notched trowel approx. 1,6 kg/m² with 6 mm notched trowel approx. 2,1 kg/m² with 8 mm notched trowel approx. 2,5 kg/m² with 10 mm notched trowel approx. 2,9 kg/m² with half-moon (20/13) notched trowel: approx. 3,9 kg/m²
- Reaction to fire: A2/ A2_{fl} s1, d0

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.



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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.
- With subsequent installation of ceramic coverings, cement screeds are required to be at least 28 days old, match strength class F4 and display a residual moisture reading of ≤ 4.0 CM-% (laying natural stones sensitive to discoloration and laying on heating screeds ≤ 2.0 CM-%), calcium sulphate screeds should have a reading of ≤ 0.5 CM-% (heating screeds ≤ 0.3 CM-%).
- If used on above mentioned substrates in moist or wet rooms, an additional SCHÖNOX bonded sealing has to be performed. The corresponding product data sheets of the SCHÖNOX bonded sealings in combination with the thin-bed mortar in the corresponding mois-

ture loading classes should be followed.

- 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.
- For laying mosaic in walk-in showers, we recommend using front side paper bonded or foil bonded material. For bonding mosaic on the floor of walk-in showers (build with mortar coated rigid-foam boards XPS or EPS) use an epoxy mortar like SCHÖNOX CF DESIGN.

Priming

- **calcium sulphate substrates such as:**
 - calcium sulphate screeds
 - gypsum plaster
- prime with SCHÖNOX KH (1:1) (drying time at least 24 hours) or SCHÖNOX KH FIX (drying time at least 1 hour). We recommend a sanded sub-coat of SCHÖNOX GEA or SCHÖNOX HP RAPID for layer-thickness exceeding 10 mm. Instead of sanding, SCHÖNOX GEA oder SCHÖNOX HP RAPID can be primed with SCHÖNOX SHP.
- On gypsum-bricks tiles can be laid without using a primer up to a moisture content of max. 5,0 % with SCHÖNOX Q9 W. Unevenness up to 5 mm can be levelled with SCHÖNOX Q9 W before applying the adhesive.
 - For height compensation > 5.0 mm to max. 10.0 mm prime with KH (1:1) or SCHÖNOX KH FIX.
- **magnesia screeds:** prime with SCHÖNOX GEA or SCHÖNOX HP RAPID and sand.

Instead of sanding, SCHÖNOX GEA oder SCHÖNOX HP RAPID can be primed with SCHÖNOX SHP.

■ non-absorbent, smooth, sound substrates such as:

- mastic asphalt screeds, insufficient sanded
- prime with SCHÖNOX SHP.
- For sanded mastic asphalt screeds there is no primer needed. For laying natural stones sensitive to discoloration use SCHÖNOX SHP as primer.
 - ceramic coverings, stable, thoroughly cleaned and if necessary abraded priming not required
- If in doubt, create a test area or request specific information.

Mixing ratio

Thin-bed mortar (wall):

- For 25,0 kg SCHÖNOX Q9 W approx. 5,75 l water

Thin-bed mortar (floor):

- For 25,0 kg SCHÖNOX Q9 W approx. 6,75 l water

Middle-bed mortar:

- For 25,0 kg SCHÖNOX Q9 W approx. 6,75 l water

Flow-bed mortar:

- For 25,0 kg SCHÖNOX Q9 W approx. 7,25 l water

Thick-bed mortar:

- For 25,0 kg SCHÖNOX Q9 W approx. 5,75 l water

Levelling consistency:

- for 25,0 kg SCHÖNOX Q9 W approx. 5,75 up to approx. 7,25 l water

Thin-bed mortar:

- For 5,0 kg SCHÖNOX Q9 W approx. 1,1 l water

For mixing a quick-setting thin-bed mortar with highly deformable > 5.0 mm (S2 according to DIN EN 12004), especially for the laying ceramic MAXX formats on floors:

- for 25,0 kg SCHÖNOX Q9 W 4,0 kg SCHÖNOX 2K DS RAPID dispersion and approx. 3,0 l water

Recommended method of working

- Using a clean receptacle, add SCHÖNOX Q9 W to cold clean water to form a

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homogeneous mixture. Use of a mixer with 600 rpm is recommended.

- 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 Q9 W is suitable for application with the floating-, the buttering- and floating-buttering method according to DIN 18 157 as well as for conventional laying with the thick-bed method on hardened burden-sharing layers.
- 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-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.
- Unevenness up to 30 mm can be levelled with SCHÖNOX Q9 W.
- We recommend SCHÖNOX floor levelling compounds for full-surface levelling.
- For laying on old ceramic coverings on walls in interior areas we recommend SCHÖNOX SHP for priming. Alternative pre-scratch levelling can be done with SCHÖNOX Q9 W.
- For laying ceramic coverings in areas permanent underwater we recommend SCHÖNOX Q6 W.
- Natural stones e.g. marble not acid-resistant may not be acidified. We recommend using a cleaning agent with pH-value of 7.0 up to 7.5.

- In case of laying highly absorbent Chinese granite (e.g. Padang) irreversible discolouration can appear. We recommend a test bonding.
- For Crystalline (translucent) natural stones a white tile adhesive should be used and where required a contact layer should be applied on the backside to avoid shine through and formation of shades.
- After laying natural stones (esp. light, thin and absorbent stones) discolouration can appear. Shades of dark discolouration normally disappear after drying. Permanent discolouration is caused by organic and inorganic ingredients transferred from the substrate, the used adhesives or the natural stone itself. This effect is caused by loosening and transport of coloured substances. The transfer is effected by capillary suction of the mixing water through the natural stones to the surface. The discolouration can be of organic kind and for example be caused from fossil components of the stones like humic acids or natural resins. Also anorganic components like natural dyeing mineral components can cause discolouration. First and foremost iron or manganese compounds are to name in this connection. Steady discolouration can be prevented by a proper selection of suitable laying materials. Because discolouration is caused by the transport of water, this way is to cut. Therefore rapid hardening adhesives with crystalline water binding properties should be used. These systems are able to embedding most of the mixing water into the mortar before dyeing substances are dissolved and transported to the surface. Due to the slight alkalinity of this systems, furthermore the danger of carbonatic bloomings is averted. To eliminate the risk of steady discolouration completely is only possible by using water-free systems.
- 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.

- Outer wall coverings on WDVS systems are excluded, as this area requires an officially approved test certificate for the entire system.
- For exterior areas use only suitable natural stones.

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 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 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

Follow the relevant product data sheets.

For building movement joints and field definition joints we recommend:

- SCHÖNOX ES respectively SCHÖNOX MES

Packaging

- 25.0 kg paper sack
- 5,0 kg polyethylene-aluminum bag (4 pieces per box)

Storage

- 25,0 kg paper bag, storage life 12 month
- 5,0 polyethylene-aluminum bag, storage life 18 month

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- Opened packages 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}: very low emission

GISCODE

- ZP1 - cement products, low in chromate

EPD - Self-declaration

Sika Deutschland GmbH declares that the product fulfills the criteria for modified mineral mortars of group 2.

ENVIRONMENTAL PRODUCT DECLARATION

acc. to ISO 14025 and EN 15804

Owner of declaration

FEICA - Association of the European Adhesive and Sealant Industry

Editor

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

Program owner

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Number of declaration

EPD-FEI-20160042-IBG1-EN

Date of issue

23.05.2016

Valid until

22.05.2021

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- SCHÖNOX Q9 W 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.

- SCHÖNOX Q9 W is not suitable for permanently wet areas (e.g. swimming pools).
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- Protect SCHÖNOX Q9 W during the working process from high ambient temperatures, direct sunlight and draughts because the open time will strongly interacted. 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 SGS

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