

### White, highly dust reduced, flexible universal powder adhesive

Hydraulic-setting, highly flexible, consumption and for handling optimized, dust reduced powder adhesive with lightweight fillers. SCHÖNOX Q6 W fulfills the requirements for flexible mortars according to the guideline of Deutsche Bauchemie. SCHÖNOX Q6 W generates because of modern raw materials and innovative production technology approx. 90 % less dust while mixing. SCHÖNOX Q6 W all-purpose suitable with the thin-bed, mid-bed and thick-bed method on walls and floors. Applicable as pourable mortar on floors.

### Product characteristics

- appr. 90 % less dust while mixing
- EMICODE EC 1<sup>PLUS</sup> R: very low emission, regulated
- fulfills the C2 TE S1 requirements according to EN 12004
- frost resistant according to EN 12004
- water-proof according to EN 12004
- Q-TEC - 100% Safe Performance - variable mix
- component of the SCHÖNOX BALTERRA®-system
- with external official test certificate, proved with min. and max. addition of water
- variable adjustable consistency
- contains lightweighted fillers
- contains trass
- sturdy
- very smooth application
- suitable for application on subfloor heating systems
- highly synthetic-resin modified
- long open time
- layer-thickness up to 25 mm
- possible to level out
- safe application and multi-purpose use
- low in chromate according to REACH

### Applications

**SCHÖNOX Q6 W is suitable for setting with the thin- middle- thick- and flow-bed-method of:**

- ceramic coverings
- fully vitrified tiles
- stoneware tiles
- glass tiles
- glass mosaic, e.g. in swimming pools
- stoneware mosaic
- earthenware tiles
- cotto
- hand-made slabs
- split clinker flags and floor quarry
- natural, artificial and concrete stone slabs not sensitive to deformation

- natural-, artificial- and cast stone tiles not sensitive to discolouration
- ceramic tiles on substrates, where stress can occur
- ceramic tiles on balconies, terraces, facades
- ceramic tiles in swimming pools
- soft and construction boards

### Substrates

**SCHÖNOX Q6 W is suitable on:**

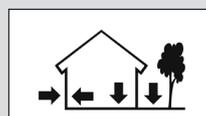
- concrete (at least 3 months old)
- aerated concrete
- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength  $\geq 2,5 \text{ N/mm}^2$ )
- gypsum plaster according to EN 13279-1, compression strength  $\geq 2,5 \text{ N/mm}^2$ ; residual moisture  $\leq 1,0 \text{ CM-\%}$ )
- gypsum bricks (moisture content  $\leq 5,0 \%$ )
- gypsum board
- construction boards
- masonry
- 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 5 mm
- magnesia screeds
- dry screeds
- SCHÖNOX water membranes
- 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 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

### Technical data

- Pot life: approx. 3 hours at +20 °C
- Open time (EN 1346):<sup>1</sup> approx. 30 minutes
- Ready for foot traffic: after approx. 12 hours
- Ready for grouting: after approx. 12 hours in interior areas, at least after approx. 48 hours in exterior areas.
- Application temperature: not below +5 °C
- Temperature resistance: -20 °C up to +80 °C
- Material consumption (powder): with 4 mm notched trowel approx. 1,3 kg/m<sup>2</sup> with 6 mm notched trowel approx. 1,9 kg/m<sup>2</sup> with 8 mm notched trowel approx. 2,4 kg/m<sup>2</sup> with 10 mm notched trowel approx. 2,8 kg/m<sup>2</sup> with half-moon (20/13) notched trowel: approx. 4,0 kg/m<sup>2</sup>

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

- Reaction to fire: E



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, wax, cleaning agents 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 to display a residual moisture reading of  $\leq 4.0 \text{ CM-}\%$  (heating screeds  $\leq 2.0 \text{ CM-}\%$ ), calcium sulphate screeds should have a reading of  $\leq 0.5 \text{ CM-}\%$  (heating screeds  $\leq 0.3 \text{ CM-}\%$ ).
- 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 moisture loading classes should be followed.
- Old, ceramic coverings should be firmly laid, thoroughly cleaned and abraded.
- 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.

- 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

- **normal absorbent substrates such as:**
  - rough and glazed lime cement plaster, cement plaster
  - cement screeds
  - rapid cement screeds
- prime with SCHÖNOX KH (1:5) or SCHÖNOX KH FIX .
- concrete
- prime with SCHÖNOX KH (1:3) or SCHÖNOX KH FIX .
- **non-absorbent, smooth, sound substrates such as:**
  - mastic asphalt screeds, insufficient sanded
  - ceramic coverings, stable, thoroughly cleaned and if necessary abraded
- prime with SCHÖNOX SHP.
- **calcium sulphate substrates such as:**
  - gypsum plaster
  - gypsum fibreboards
  - calcium sulphate screeds
  - dry screeds on gypsum base
- 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 for layer-thickness exceeding 10 mm.
- Instead of sanding, SCHÖNOX GEA can be primed with SCHÖNOX SHP.
- **magnesia screeds:**
  - prime with SCHÖNOX GEA and sand.
  - Instead of sanding, SCHÖNOX GEA can be primed with SCHÖNOX SHP.

### Mixing ratio

#### Thin-bed mortar (wall):

- For 25,0 kg SCHÖNOX Q6 W approx. 7,75 l water

#### Thin-bed mortar (floor):

- For 25,0 kg SCHÖNOX Q6 W approx. 8,5 l water

#### Middle-bed mortar:

- For 25,0 kg SCHÖNOX Q6 W approx. 7,75 l water

#### Flow-bed mortar:

- For 25,0 kg SCHÖNOX Q6 W approx. 10,0 l water

#### Thick-bed mortar:

- For 25,0 kg SCHÖNOX Q6 W approx. 7,75 l water

#### Levelling consistency:

- For 25,0 kg SCHÖNOX Q6 W approx. 7,75 up to approx. 10,0 l water

### Recommended method of working

- Using a clean receptacle, add SCHÖNOX Q6 W 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.
- Immediately after use clean tools with water.
- Material that has already been set cannot be re-mixed with additional water or powder.
- SCHÖNOX Q6 W is suitable for application with the floating-, the buttering- and floating-buttering method according to DIN 18 157.
- Unevenness up to 25 mm can be levelled with SCHÖNOX Q6 W.
- We recommend SCHÖNOX floor levelling compounds for full-surface levelling.
- For laying glass mosaic follow the recommendations of the glass mosaic manufacturer. Particularly for light porous types of glass, humidity spotting can appear caused by cement based materials. For glass mosaic with glassy back bonding problems can occur. Cor-

responding to this a bonding with epoxy resin adhesive and epoxy resin grouting mortar maybe is required.

- For laying large-sized tiles and labs, pay attention to the valid basic rules and standards.
- Outer wall coverings on WDVS systems are excluded, as this area requires an officially approved test certificate for the entire system.
- 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.
- 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.
- 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.

- For exterior areas use only suitable natural stones.
- 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.
- For laying under time pressure we recommend SCHÖNOX Q9.
- For laying natural stones sensitive to discolouration we recommend depending on the substrate and the covering: SCHÖNOX Q9 W.

### 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

**For building movement joints and field definition joints we recommend:**

- SCHÖNOX ES respectively SCHÖNOX MES

Follow the relevant product data sheets.

### Packaging

- 25 kg paper sack

### Storage

- Store SCHÖNOX Q6 W 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<sup>PLUS</sup> 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 fullfills the criteria for modified mineral mortars of group 2.

### 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 Druck-  
farbenindustrie e.V.

### Editor

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

### Program owner

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

### Number of declaration

EPD-DIV-20130097-IBE1-DE

### Date of issue

30.07.2013

### Valid until

29.07.2018

### Instructions

- All values are approximate and are subject to local climatic fluctuations.
- SCHÖNOX Q6 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.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- Protect SCHÖNOX Q6 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.

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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