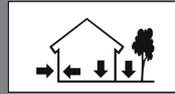




SCHÖNOX® MES

Natural stone silicone

for sealing and filling connection and movement joints of natural stones and cast stones as well as ceramic tiles. For internal and external application.



Product characteristics

- EMICODE EC 1^{PLUS}: very low emission
- oxime-based neutral-curing silicone sealant
- avoids discolouration of natural stones
- for interior and exterior use
- constant within a wide range of temperature
- frost resistant
- suitable for application on subfloor heating systems
- elastic
- fungicide, prevents fungal growth
- on glass, enamel, glazed ceramic, clinker etc. no priming required
- resistant against ageing, water, sea water, carbonic acid, ozone, UV-radiation, normal cleaning agents
- very high crack and notch resistance
- highly resistant against UV-radiation, ageing, water, ozone
- not corrosive

Applications

- SCHÖNOX MES is especially suitable for sealing and filling connection and movement joint of natural stone tiles and cast stone tiles as well as ceramic coverings, such as between tiled walls and bathtubs, washbasins, shower basin, pipe-breaks, toilets etc. Particularly suitable for floor application. Also suitable for permanently wet areas for example natural stones swimming pools.

Requirements of substrate

- The joints must be dry and free of dirt and separating agents.
- The joints must be minimum 5 mm wide and 5 mm deep, maximum 25 mm wide and 15 mm deep.
- Joint width of 10 up to 20 mm requires joint depth of 8 up to 12 mm.

- To avoid adhesion to three flanks, fill up the joints with a suitable material like a poly-ethylene cord.
- Prime pre-treat high-grade steel, aluminium and some synthetics as well as alkaline substrates (plaster, masonry, concrete etc.) with a suitable primer.
- Apply a suitable primer evenly on the joint flanks with a brush or non-fuzzing cloth (depending on substrate and primer) and let it evaporate.
- A good adhesion is reached without a primer on many natural and artificial stones (see recommended method of working)

Material consumption

The consumption depends on the size of the joints. One cartridge SCHÖNOX MES is adequate for the following lengths of joints - depending on the joint size:

size of joint (width x depth)	one cartridge is required for
5 x 5 mm	12.0 m
6 x 6 mm	8.0 m
7 x 7 mm	6.0 m
8 x 8 mm	4.5 m
10 x 10 mm	3.0 m
12 x 10 mm	2.5 m
15 x 10 mm	2.0 m
20 x 12 mm	1.2 m

Recommended method of working

- Cover the border area of tiles with adhesive tape and remove it immediately after grouting.
- Inject SCHÖNOX MES steady into the joint.
- Smooth the surface immediately with a smoothing tool (e.g. spatula, jointer) wetted with a suitable silicon smoothing agent for natural stones.
- Smoothing agent should not be left in larger quantities on the silicone grout and dry, because dried residues can lead to optical adverse effects on the surface of the sealing compound (matt

Technical data

- Basis: one-component, neutral cross-linking (oxime) silicone rubber mastic
- Colour: available in various colors
- Skin formation: after approx. 10 min
- Application temperature: +5 °C to +35 °C
- Temperature resistance: completely cured -40 °C to +180 °C
- Viscosity (23 °C): paste-like, sturdy
- Density: 1,0 kg/l
- Shore-A hardness according to ISO 868: appr. 30
- E-modulus at 100 % elongation according to ISO 37, S3A: approx. 0,50 N/mm²
- Elongation at rupture according to ISO 37, S3A: approx. 600 %
- Tensile strength according to ISO 37, S3A: approx. 1,4 N/mm²
- Practical kinetic absorption: 20 %
- Curing in 24 hours: approx. 3 mm



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/light spots). As far as the smoothing agent is not able to run off the joint itself, it is recommended to apply it sparingly, e.g. wet burnishing tool only. To avoid spots/discolouration on natural stones or ceramic tiles, remove excess smoothing agent with clear water before drying.

- Because some natural, artificial and cast stone tiles as well as unpolished ceramic and fully vitrified tiles are very sensitive to stains/spot on the surface, do not use conventional washing-up liquids with water as a smoothing agent.
- Do not spread sealant on the surface of unpolished natural stones, because the sealant is difficult to remove once it is in the pores of the natural stones.
- Insure a good ventilation during application and hardening of SCHÖNOX MES.
- Especially on natural stones we recommend carry out a test sealing because of the multitude of possible effects during the application. (Information for primer see instructions).

For the most natural stones without exposure to wetness there is no need for a primer. Notwithstanding to this there are some which need for an optimal bonding a primer, e.g. Otto Primer 1216.

On the following natural- / artificial stones there is a good bonding without using a primer:

Afrika Red, Balmoral, Baltic Brown, Bianco Bahia, Bianco Sardo, Bianco Silver, Bianco Tarin polished, Bohus Grey, Granite, Jura, Kashmir White, Labrador dark, Multicolor, Rosa Porrino, Sarrizio Silver, Solnhofer, Spluga Verde, Yuparana, Azul Atlantico.

Packaging

- 300 ml cartridge (20 pieces in a box)

Storage

- Store SCHÖNOX MES in cool, dry conditions.
- Storage life of 18 months (in closed packaging).
- opened cartridges must be used in a short time

Disposal

- Empty cartridges 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

Safety phrases

- Ensure good ventilation during the application and vulcanization. Volatile matters emit during the vulcanization. If these are breathed in high concentration, damage to health can not be ruled out. For more detailed information see safety data sheet.

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- All information applies to standard conditions.
- Areas which are grouted with SCHÖNOX MES can be cleaned with household steam cleaners (without using scrubbers) 7 days after grouting.
- The vulcanization time prolongs with increasing thickness of the silicone.
- Vulcanised material can only be removed mechanically.
- For technical reasons, slight differences in colour are possible from one cartridge to the other; this does not effect the quality of the silicone. We do not accept any liability for these differences in colour.
- The fungicidal fitting of SCHÖNOX MES prevents mould infestation on the surface of the sealing. High air humidity, warmth, weak light and irregular cleaning can promote the mould-infestation. SCHÖNOX MES must be compatible with the corresponding cleaning and disinfection agent which is used to maintain the joints.
- A silicone joint depending on the application can be defined as a maintenance joint. Pay attention to the ZDB-leaflet „Bewegungsfugen in Bekleidungen und Belägen aus Fliesen und Platten“.

- One-component silicones are not suitable for bonding applications except the structural design allows for.
- Strong impact from tobacco smoke and similar environmental influences may lead to discolouration of the sealant.
- Because of the multiplicity of possible effects during use and application, we recommend to carry out a trial application.
- For sandstones basically a test bonding must be carried out or substrate must be primed with a suitable primer e.g. Otto primer 1102. Application according to the product data sheet of the manufacturer.
- For grouting natural stones in underwater areas e.g. swimming pools please contact the technical support of SCHÖNOX.
- For using in splashing water areas and for underwater application we recommend a pre-treatment of the substrates with a suitable primer e.g. Otto primer 1216 or 1218 (Otto-Chemie, Fridolfing). Application according to the product data sheet of the manufacturer.

Splashing water

Permanent water stress

Aluminium (bare, anodized)	Otto Primer 1216
Concrete	Otto Primer 1218
Chrome	Otto Primer 1216
Stainless steel	Otto Primer 1216
Natural stones	Otto Primer 1218

For other not mentioned substrates we recommend making an application test or asking the technical support of SCHÖNOX.

- The application of the primer must be done extremely carefully to avoid the risk of spotting.

Pay attention to the following advices for using SCHÖNOX MES as a sealing compound for joints in swimming pools: The sealing compound must be completely vulcanized before the first filling of the swimming pool with water. During hardening small amounts of a neutral decomposition product are set free. In the final state SCHÖNOX MES

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is completely odourless and indifferent. SCHÖNOX MES is fitted fungicidal and resistant against the normal concentration of saltwater and chlorine in swimming pools. To reduce the danger of infestation with microorganisms the following advices for swimming pools should be observed:

The disinfection of the swimming pool water with chlorine is essential. In addition alternative methods can be used. A sufficient disinfection with chlorine however is obligatory to prevent effective a mould infestation. The alternative methods like UV irradiation or ozonisation have no disinfectant depot effect. We recommend washing off the vulcanised sealant before filling the swimming pool with clear water in order to remove residues of smoothing agent from the sealant surface. Residues of smoothing agent might support settings of micro organism and might cause mould infestation.

The following water quality should be observed: Swimming pools 0.3 - 0.6 mg/liter free chlorine, warm whirlpool baths 0.7 - 1.0 mg/liter free chlorine. Actual it is state of the art that a concentration of free chlorine up to 1.2 mg/liter is permitted. The optimal pH-value for the water is 7.0.

For fresh water variations between 6.5 and 7.6 are allowed. If a to strong irritant smell of chlorine becomes noticeable, the reason is maybe a false pH-value of the swimming pool water. Test and adjust to the optimum value.

Indispensable is a regular water circulation. It must operate permanent and should be not interrupted temporarily. Interruptions can lead to partial very unequal concentrations of chlorine. Whereas the minimum concentration of 0.3 mg/liter may fall short here and there. Such shortfalls lead to pullulation of the all over existing spores and to mould infestation. If water circulation is working properly, the pool water should run permanently over the overflow edge of the pool.

Do not use acid detergents alone, afterwards a neutralisation must be done with

alkaline detergents. The risk of mould-infestation can increase by using such detergents.

Infested silicone joints must be completely removed and the substrate must be disinfected with Anti-Mildew spray. Otherwise the in the sealant invaded fungal spores grow through the renewed sealant very soon to the surface.

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 supercedes all previous editions.



The Sika management system is certified to ISO 9001 and 14001 by SQS

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