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SCHOMBURG

Technical Data Sheet

ESCOSIL®-2000-ST

Natural stone silicone

Art.-No. 2 05592

CE

SCHOMBURG GmbH & Co. KG
Aquafinstrasse 2 – 8
D-32760 Detmold
2014
2 05592

EN 15651-1, EN 15651-3, EN 15651-4
ESCOSIL-2000-ST
11 component silicone sealant, neutral cure for use on facades, in sanitary areas, for pedestrian paths
- Type F EXT-INT CC, S, PW INT
- Conditioning: method A
- Carrier material: anodised aluminium
- Pretreatment: Cleanprimer 1101

Reaction to Fire	Class E
Release of hazardous materials and/or chemicals harmful to the environment	evaluated
Water- and air-tightness	
a)Tensile behaviour under pre-stressing (+23°C/-20°C)	passed (NF)
b)Stability	≤ 3 mm
c)Loss of volume	≤ 10 %
d)Tensile strength	passed (NF)
e)Tensile behaviour i.e. elongation under pre-stressing after immersion in water	passed (NF)
f)Tensile properties / secant modulus in cold climates (at -30 °C)	≤ 0.9 MPa
g)Tensile properties under pre-stressing in cold climates (at -30 °C)	passed (NF)
h)Microbiological growth	0
Durability	passed (NF)

- Elastic.
- Non slump.
- Smooth paste consistency.
- Oxime-interlacing.
- Contains fungicide.
- For interiors and exteriors.
- For walls and floors.
- Weather-, UV- and ageing-resistant.
- Watertight.
- With good chemical resistance.
- MEKO-free

Areas of application:

For the discolouration-free elastic jointing of natural stone finishes (e.g. marble, granite, gneiss, sandstone etc.). No risk of migration of plasticizers or other components that can lead to picture framing. As a seal to wash basins, bath tubs, shower trays, door and window frames and for sealing movement and connecting joints.

Technical Data:

Basis:	pure, unmodified, neutral curing silicone sealant
Colours:	white, jasmine, pergamon, silver grey, grey, medium grey, beige, caramel, jura beige, titanium grey, graphite, brown, nut brown, black, sand grey, bahama beige
Consistency:	paste
Specific gravity:	approx. 1.01 g/cm3
Application temp:	+5 °C to +35 °C
Skin formation:	approx. 10 minutes at +23°C and 50% relative humidity
Curing after 1 day:	approx. 2–3 mm at +23 °C and 50% relative humidity
Shore-A-hardness:	approx. 30 acc. to DIN 53505
E module:	approx. 0.48 – 0.55 N/mm2, 100% to DIN 53 504
Permissible movement accommodation:	25% *)
Tensile strength:	approx. 1.4 N/mm2 to DIN 53 504
Elongation at break:	approx. 400 % to DIN 53 504
Temperature resistance:	- 40 °C to +180 °C
Storage:	dry and cool, 24 months in the original unopened packaging. Use opened packaging promptly.
Packaging:	310 ml, polyethylene cartridges (310 ml x 12 tubes per box)
Cleaner:	ASO-R001 when in the fresh state

*) For interior floor application, a total deformation of 12.5% is permitted.

Substrate preparation:

The areas of contact must be dry (concrete < 4 % moisture), clean, dust free as well as free from constituents that work as separating agents (e.g. oil, grease, paint residues, sealers, cement slurries etc.). With sandstone thoroughly brush clean the joint edges. Also during the

curing of ESCOSIL-2000-ST no moisture should be allowed to penetrate including from the edges or the bottom of the joints.

- For improving the bond to natural stone and when using with metal such as cast iron, aluminium, galvanised metal etc., the joints edges should be primed with AG70.
- When applying to natural stone in wet areas pre-treat with AG70.
- When using with sandstone, priming with a suitable primer, such as OTTO-CHEMIE Primer 1102, is strictly necessary.
- With painted and plastic surfaces carry out a site trial if necessary.
- When using the primer AG70 there is a risk of spot formation. Do not spray! Oil, tar and bitumen containing backing strips are not suitable nor are natural rubber, chloroprene or EPDM based materials.
- With rough, porous mineral-based substrates e.g. concrete, aerated concrete, Eternit, render and brickwork, prime the joint edges with a suitable primer, such as OTTO-CHEMIE Primer 1225.

Product application:

Filling of the joint with ESCOSIL-2000 may be carried out once the primer has dried. The general jointing technology regulations must be followed. The surface of the applied sealant can be subsequently smoothed, i.e. before it has formed a skin, with a suitable tool. Due to the sensitivity of natural stone it is recommended that a special smoothing material, such as OTTO-CHEMIE Marmor-Silicon-Glättmittel, is used.
When using conventional smoothing materials such as washing-up liquid, spots may be left on the surface.

Priming table:

Substrates	ESCOSIL-2000 Natural stone silicone
Acrylic (bath tubs)	AG70
Aluminium untreated	–
Aluminium, anodised	–
Concrete	AG70 / –
Lead	–
Chrome	AG70
Iron, abraded	–
Stainless steel, rust free	AG70 / –
Tiles, glazed	–
Tiles, unglazed	–
Glass	–
Wood, glazed	–
Wood, varnished	–
Synthetic stone	AG70 / –
Copper	–
Plastic (profiles)	–
Melamine resin	AG70
Brass	–
Natural stone	AG70* / –
Polyester	–
PVC	AG70
Soft PVC (membranes)	×
Thinplate	AG70
Zinc	AG70

* strictly in wet areas
– = not required

ESCOSIL®-2000-ST

Advice:

- Protect areas, which are not to be treated from the effects of ESCOSIL-2000-ST.
- Avoid skin contamination and remove with soap and water as necessary.
- Avoid contact with eyes or mucous membranes with the uncured silicone sealant ESCOSIL-2000-ST.
- Thoroughly rinse eyes with plenty of water and seek medical attention.
- Avoid prolonged and repeated skin contact.
- Contains a blend of butoxime-silanes and butoxime. May cause allergic reactions. This product should not be repeatedly inhaled over long periods otherwise damage to health cannot be excluded.
- Strictly adhere to all safety measures for handling solvent-based lacquers and solvents when using primer AG70.
- AG70
  For an improved adhesion of silicone systems to metal, concrete slabs and to natural stone. In combination with metals such as e.g. iron which corrode on contact with acetic acid use ESCOSIL-2000-ST or ESCOSIL-2000-UW. In combination with concrete blocks and natural stone use ESCOSIL-2000-ST.
- The current IVD data sheets are to be observed.

Please observe a current EU safety data sheet.

Consumption table:

Joint dimensions and consumption (approx.) in m per 310 ml cartridge

Joint width in mm / Joint depth in mm	5	7	10	12	15	20	25
5.0	12.0 m	8.0 m	6.0 m				
7.0		6.0 m	4.0 m	3.0 m			
10.0			3.0 m	2.5 m	2.0 m	1.5 m	
12.0				2.1 m	1.7 m	1.2 m	1.0 m
15.0					1.3 m	1.0 m	0.8 m