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ESCOSIL-2000-ST

Natural stone silicone

Material number	Contents	Packaging	Colour
205592001	310 ml	Cartridge	White
205592006	310 ml	Cartridge	pergamon
205592011	310 ml	Cartridge	beige
205592012	310 ml	Cartridge	nut brown
205592015	310 ml	Cartridge	silver grey
205592016	310 ml	Cartridge	Grey
205592017	310 ml	Cartridge	titanium grey
205592019	310 ml	Cartridge	Black
205592020	310 ml	Cartridge	jasmine
205592021	310 ml	Cartridge	caramel
205592022	310 ml	Cartridge	Jura beige
205592023	310 ml	Cartridge	brown
205592024	310 ml	Cartridge	Medium grey
205592025	310 ml	Cartridge	graphite
205592026	310 ml	Cartridge	sand grey
205592027	310 ml	Cartridge	Bahama beige

Product features

- Natural stone silicone - contains fungicide
- Oxime cure
- water resistant
- Resistant to chlorine Dand chemicals
- Skin forms after ca. 10 minutes
- Hardening of approx. 2 - 3 mm on the 1st day
- Total permissible deformation: max. 25 %

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Advantages

- Compatible with natural stone
- Non slump
- Convenient compaction properties
- Anti-fungal effect
- Easy to smooth

Areas of application

- For sealing expansion, movement and connecting joints in tiled finishes
- To produce movement joints in sanitary applications, damp and wet areas
- For walls and floors
- For interior and exterior use

Existing test certificates

EMICODE licence

Technical Data

Material properties

Product components	1 component system
Base material	Neutral curing silicone jointing compound
Consistency	Paste
Reaction to fire in accordance with Directive 96/603/EC	E
Curve E module (DIN 53452)	approx. 0.48 N/mm²
Elongation at break (ISO 37)	approx. 600 %
UV-resistant	true
Tensile strength (ISO 37)	approx. 1.4 N/mm²
Permissible movement accommodation	max. 25 %
Classification of the reaction to fire in accordance with DIN EN 13501-1	E

Application

Substrate temperature	from 5 °C to 35 °C
Pot life	approx. 10 minutes
Hardening process per 24 hours	min. 2 mm
Foot traffic after	approx. 24 hours
Application temperature	from 5 °C to 35 °C
Hardening time / full resilience	approx. 24 - 48 hours
Skin formation time	approx. 10 minutes

Material consumption

Material consumption rate according to the area of application

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

Joint depth in mm \ Joint width 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

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Application technology

Aids/tools

- Smooth wood
- Flat trowel
- Craft knife
- Smoothing agent

Manual processing

Can be smoothed with a smoothing tool

Suitable substrate

Glass

Substrate preparation

Requirement for substrate

1. Clean
2. Dry
3. Free of adhesion inhibiting substances

Priming table

Substrates	ESCOSIL-2000-ST Natural stone silicone
Acrylic (bath-tubs)	– / Primer 1101 from OTTO-CHEMIE
Aluminium, untreated	–
Aluminium, anodised	–
Concrete	– / Primer 1216 from OTTO-CHEMIE
Lead	–
Iron, abraded	–
Stainless steel	– / Primer 1216 from OTTO-CHEMIE
Tiles and boards, glazed	– / (permanent wet/underwater area) Primer 1218 from OTTO-CHEMIE
Tiles and boards, unglazed	–
Glass	–
Wood, glazed	–
Wood, varnished	–
Synthetic stones	– / Primer 1216 from OTTO-CHEMIE
Copper	– / Primer 1216 from OTTO-CHEMIE
Plastic (profiles)	– / Primer 1227 from OTTO-CHEMIE
Melamine resin	– / Primer 1216 from OTTO-CHEMIE
Brass	– / Primer 1216 from OTTO-CHEMIE
Natural stones	– / Primer 1216 from OTTO-CHEMIE
Natural stones (permanently wet/underwater area)	– / Primer 1216 / 1218 from OTTO-CHEMIE depending on absorbency
Polyester	– / (permanent wet/underwater area) Primer 1217 from OTTO-CHEMIE
PVC	Primer 1217 / 1227 from OTTO-CHEMIE
soft PVC (films)	Primer 1217 / 1227 from OTTO-CHEMIE
Thinplate	Primer 1216 from OTTO-CHEMIE
Zinc	Primer 1216 from OTTO-CHEMIE

– = not required

Preparing the details

Clean the joint edges on sandstone thoroughly by brushing off.

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Preparing the surface

1. No moisture may enter during hardening. This also applies to the edges and the joint edge.
2. Pre-treat the joint edges with a suitable primer (e.g. OTTO Primer 1225) on rough, porous, cementitious substrates (e.g. concrete, aerated concrete, eternit, plaster and masonry work).
3. For improved adhesion on natural stones and metal (e.g. aluminium, hot-dip galvanisation, etc.), prime the joint edges with OTTO Primer 1216 /1218.
4. Pre-treat natural stones in intermittently wet rooms with OTTO Primer 1216/1218.
5. Pre-treat sandstone with OTTO Primer 1102.
6. Carry out performance tests on the building on coated and plastic surfaces.
7. Allow the primer to dry.

Usage

Application

1. When filling with ESCOSIL-2000-ST, the general standards for jointing technology are essential.
2. Smooth the surface of the applied sealing compound using a smoothing agent and suitable tools before it can form a skin. Push the material into the joints and press onto the contact surfaces.
3. We recommend using OTTO marble silicone smoothing agent. Conventional smoothing agents (washing up liquid) can leave smoothing agent stains.

Cleaning tools

Immediately after use, clean tools with ASO-R001.

Storage conditions

Storage

Frost-free. cool and dry. 24 months in the original container. Promptly use opened container.

Disposal

Product leftovers can be disposed of in accordance with disposal code AVV 08 04 09.

Notes

- Protect surfaces that are not to be treated from the effects of ESCOSIL-2000-ST!
- Avoid contamination on the skin and remove with soap and water if necessary.
- Unhardened sealing compound ESCOSIL-2000-ST must not get into eyes and/or mucous membranes. Rise the eyes immediately with a large amount of water and consult a doctor.
- Avoid extended and repeated skin contact.
- When using the primer, comply with all precautions for handling paints / solvents that contain solvents.
- Contains a mixture of butanone oxime silanes and butanone oxime. May cause allergic reactions. This must not be inhaled continuously, as damage to health cannot be ruled out.
- Oil, tar and bitumen containing backing strips as well as materials based on natural rubber, chloroprene or EPDM are not suitable.
- The first 2 digits of the lot number imprint correspond to the month of bottling, and the third and fourth digits to the year of bottling.

The recognised standards of construction engineering, the relevant guidelines and current regulations must be observed.

Extract of essential regulations

- Observe the current IVD data sheets
- [*3] "Movement joints in cladding and coverings made of tiles and boards"

Observe applicable safety data sheet!

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Annotations

Conformity / Declaration / Verification

$C\,E$

SCHOMBURG GmbH & Co. KG
Aquafinstraße 2–8
D-32760 Detmold (Germany)
2014
2 05592

EN 15651-1, EN 15651-3, EN 15651-4
ESCOSIL-2000-ST
Single component silicone jointing compound, neutral curing
for use in façades, in sanitary applications, for pavements

- Type F EXT-INT CC, S, PW INT
- Conditioning: Procedure A
- Carrier material: Anodised aluminium
- Pre-treatment: Cleanprimer 1101

Reaction to fire	class E
Release of chemicals which are hazardous to health and/or the environment	assessed
Water and air tight	
a) Tensile behaviour under preload (+23°C/-20°C)	passed (NF)
b) Good stability	≤ 3 mm
c) Loss of volume	≤ 10 %
d) Tensile strength	passed (NF)
e) Tensile behaviour, i.e. stretching behaviour under preload after immersion in water	passed (NF)
f) Tensile properties/secant module in cold climate (at -30 °C)	≤ 0.9 MPa
g) Tensile properties under preload in cold climate (at -30 °C)	passed (NF)
h) Microbiological growth	0
Durability	passed (NF)

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Colours

	Bahama beige
	White
	titanium grey
	silver grey
	sand grey
	pergamon
	nut brown
	Medium grey
	Jura beige
	jasmine
	Grey
	graphite
	caramel
	brown
	beige
	Black