



## Technical Data Sheet

### ESCOSIL®-2000-UW Silicone for underwater use

Art.-No. 2 05591

- Non slump.
- Smooth paste consistency.
- Oxime-interlacing.
- High level of fungicide.
- Elastic.
- Resistant to weathering and ageing.
- Watertight.
- Resistant to chemicals and chlorine.
- For interiors and exteriors.
- For walls and floors.
- MEKO-free

#### Areas of application:

ESCOSIL-2000-UW is used for the elastic jointing of expansion and construction joints in swimming pools, water features etc. or where an especially high fungicidal performance is desired.

Not suitable for potable water or fish tanks.

#### Technical Data:

Basis:	pure, unmodified, neutral curing silicone sealant, silicone oils
Colours:	medium grey, cement grey
Consistency:	paste, non slump
Specific gravity:	approx. 1.05 g/cm <sup>3</sup>
Application temp:	+5 °C to +35 °C
Skin formation:	approx. 6 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. 24 acc. to DIN 53505
E module:	approx. 0.35 N/mm <sup>2</sup> , 100% to DIN 53 504
Movement accommodation:	25%
Tensile strength:	approx. 2.6 N/mm <sup>2</sup> to DIN 53 504
Elongation at break:	approx. 450%, to DIN 53504
Temperature resistance:	- 40 °C to +180 °C

Storage:	dry and cool, 12 months in the original unopened packaging. Use opened packaging promptly.
Packaging:	polyethylene cartridges, 310 ml contents (310 ml x 12 tubes per box)
Cleaner:	ASO-R001 when in the fresh state

#### 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.). Also no moisture should penetrate the ESCOSIL-2000-UW from the edges or from the joint base during the curing process.

- With mineral-based substrates, such as for example ceramic tiles, concrete etc. and zinc, treat the joint edges with a suitable primer e.g. Primer 1218 from OTTO-CHEMIE.
- When using with metal such as cast iron, aluminium, galvanised metal etc., the joints edges should be primed with AG70.
- For application on painted and plastic surfaces individual site trials should be carried out! Oil, tar and bitumen containing backing strips are not suitable nor are natural rubber, chloroprene or EPDM based materials.

#### Product application:

Filling of the joint with ESCOSIL-2000-UW 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 soapy water and a suitable tool. Hereby the material is pressed in the joint and onto the contact surfaces. The surface should not be exposed to water until at least 4 days have elapsed.

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# ESCOSIL®-2000-UW

## Advice:

- When using in swimming pools sufficient chlorine disinfection measures must be in place to effectively prevent mildew and/or algae. Alternative measures such as UV-radiation or ozone do not have sustained disinfecting efficiency. This is however indispensable to avoid the formation of mildew and/or algae.
- Constant water circulation has always to be in use and must never be interrupted, even for a short time. The chlorine concentration must not fall below 0.3 mg/l, not even in places.
- When using acid cleaners ensure that subsequently an alkaline environment is produced as the danger of mould/mildew is increased with their application.
- Protect areas, which are not to be treated from the effects of ESCOSIL-2000-UW.
- 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-UW.
- Thoroughly rinse eyes with plenty of water and seek medical attention.
- Avoid prolonged and repeated skin contact.
- Contains a blend of butanone oxime silanes and butanone oxime. May cause allergic reactions. Must not be continuously inhaled as this may effect the health.
- 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.

## Priming table:

Substrates	ESCOSIL-2000-UW Underwater silicone
Acrylic (bath tubs)	-
Aluminium untreated	AG70
Aluminium, anodised	AG70
Concrete	×
Lead	×
Chrome	AG70
Iron, abraded	×
Stainless steel, rust free	AG70
Glass	-
Wood, glazed	×
Wood, varnished	×
Synthetic stone	AG70
Copper	×
Plastic (profiles)	-
Melamine resin	AG70
Brass	×
Natural stone	×
Polyester	×
Aerated concrete	×
PVC	AG70
Soft PVC (membranes)	×
Sandstone	×
Thinplate	AG70

× = not suitable  
- = not required

Please observe a current EU safety data sheet.

# ESCOSIL<sup>®</sup>-2000-UW

## 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

