

## PRODUCT DATA SHEET

# Casco<sup>®</sup> Silikon

Moisture curing Alkoxy type, highly elastic, low modulus sealant

### DESCRIPTION

Moisture curing Alkoxy type, highly elastic, low modulus sealant.

### USES

Mainly intended for use in bathrooms, kitchens and other places with high humidity but can also be used outdoor.

### CHARACTERISTICS / ADVANTAGES

- Anti-mold treated silicone sealant for wet areas
- Low odour environmentally friendly silicone
- Very good outdoor weather, UV and water resistance

### SUSTAINABILITY

For the product's assessment in the different building criteria systems, see MiljöAppen. Here you will also find information about EC1, M1, link to the building product declaration, safety data sheets etc. The MiljöAppen, can also be reached by entering [www.sikamiljoapp.se](http://www.sikamiljoapp.se) in your web browser.

### PRODUCT INFORMATION

Composition	Alkoxy silicone
Packaging	40 ml tube in blistercard
Shelf life	18 months if stored in a cool (below +25 °C) dry place in moisture tight cartridge. After 18 months the reactivity will gradually decrease and will result in insufficient curing of the sealant. Check the production date and if exceeded pre-test the curing time.
Storage conditions	Stored in a cool (below +25 °C) dry place in moisture tight cartridge
Colour	Color range to be defined by local sales organization
Density	~1010 kg/m <sup>3</sup>
Viscosity	Gun-grade thixotropic
Volatile organic compound (VOC) content	None

### TECHNICAL INFORMATION

Shore A hardness	~24 Shore A
Tensile strength	0,70 MPa

<b>Modulus of elasticity in tension</b>	100 % Module according to ISO 8339: 0.37 MPa
<b>Elongation</b>	300 %
<b>Movement capability</b>	25 %
<b>Service temperature</b>	-40 °C to +150 °C
<b>Diffusion resistance to water vapour</b>	Excellent
<b>Resistance to UV exposure</b>	Excellent
<b>Resistance to weathering</b>	Excellent
<b>Colour stability</b>	Excellent
<b>Joint design</b>	Joint width: 5-30 mm

## APPLICATION INFORMATION

<b>Substrate temperature</b>	Application temperature: +5 °C - +40 °C
<b>Curing time</b>	~2 mm the first 24 hours
<b>Skimming time</b>	10-35 minutes (23°C/50%RH)

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER INFORMATION

### MAINTENANCE

We recommend using Silikon for elastic joints in wet space areas. This product contains a mould retardant, which will protect against mildew attack. However, the joint must be cleaned and maintained regularly for proper function:

After shower or bath all joints should be rinsed from residues of shampoos or soaps etc. Keep the wet space area as dry as possible by using proper ventilation. The joints should be cleaned with normal household cleaning agents as a part of normal cleaning routines, depending on load of use.

If the joint has been discoloured or a mildew attack has occurred, it might be necessary to clean the joint by using a detergent containing chlorine e.g. Chlorine or with a mildew cleaner.

If a severe mildew attack is present cut out the damaged area and re-caulk. Avoid cutting through the water sealing membrane beneath.

### LIMITATIONS

Light colors as white and light grey of Silikon may get yellow by;

Contact with some materials

Curing in rooms without windows

Curing when painting is done with Alkyd paint system

When there is newly laid hardwood flooring in connecting rooms

When there is newly varnished or oiled floor in connecting rooms.

If cleaning were done with special cleaning agents

If overdose of detergent

In areas with poor ventilation

In such conditions we recommend to use Casco®

AquaSeal Våtrumsfog.

Silikon should by no means be used as an adhesive e.g. mirror bonding, only for sealing.

The product is not recommended to aquariums, use Casco® Glass Silicone instead.

Solvents, especially aromatics like toluene will cause swelling and deterioration of the sealant.

Also petrol and diesel oil have this effect. Strong acids and bases will destroy the sealant.

Due to the risk of dirt pick up around the joint Silikon must not be used to seal connecting and expansion joints between non-porous siliceous materials such as tiles or ceramics in facades.

Greasy plastics like polyethylene, polypropylene as well as Teflon cannot be glued.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Joint interface must be clean, dry, and free from oils, loose aggregates, laitance, release agents, waterproofing and other contaminants.

A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose clean, sound surfaces. Apply a joint backing rod of foamed polyethylene that is approx. 25 % wider than the joint.

### PRODUCT DATA SHEET

Casco® Silikon

February 2023, Version 03.01

02051403000000115

If the available space does not allow a backing rod, prevent adhesion to the bottom of the joint by other means, e.g. with polyethylene tape.

### APPLICATION

After the joint is properly prepared, apply the sealant. Cut the nozzle at an angle and less than the width of the seam. Material must be pressed firmly into the joint to assure complete wetting of the bonding surface. Immediately after application tooling is recommended to ensure firm, full contact with joint sides. The surface can be smoothened with a wet sealant tooling stick or/and sponge. Take care not to contaminate open joints with water. Use pure water or water with a small amount of soap/detergent. Too much soap can affect the tack free time.

### DIRECTIONS FOR USE

Both curing and adhesion is dependent on sufficient amount of moisture. If Silikon is applied under dry conditions or between watertight materials, extra time or moisture might be necessary to obtain optimum cure and adhesion. See below table for recommendation of pre-treatment on different materials. It is recommended to do pre-tests.

#### ▪ METAL

The adhesion is good to unionized and lacquered aluminium, fresh copper, stainless steel. Iron and galvanized steel should be primed and/or painted before sealing.

#### ▪ WOOD

Lacquering or painting before sealing is recommended. A primer is recommended at humid and wet conditions.

#### ▪ GLASS

Silikon bonds perfectly to glass. Always clean the glass by wiping with ethanol or acetone (avoid contact with coatings e.g. with window frames)

#### ▪ PLASTICS

The adhesion to hard PVC, plasticized PVC<sup>x</sup>, polystyrene, ABS, polycarbonate, polyacrylate<sup>x</sup>, polyamide and epoxy is good.

#### ▪ POROUS

On porous material like concrete and fresh bricks it is recommended to always use a primer. It is especially important for expansion joints e.g. for the concrete when installing aluminium windows.

### TOOLING

Immediately after application the compound is pressed into good contact with the sides to ensure complete wetting of the bonding surfaces. Smooth the sealant with a trowel or a smooth, moist tooling stick.

### CLEANING OF EQUIPMENT

Remove all excess sealant adjacent to joint and on equipment prior to cure with a rag. White spirit or technical ethanol is used if necessary. Cured sealant is removed mechanically.

On skin, uncured sealant is wiped off with a rag, then wash with soap and water.

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

### LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Casco products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or on the website [www.casco.eu](http://www.casco.eu).

#### Sika Sverige AB

Domnarvsgatan 15  
Box 8061  
SE- 163 08 Spånga Sweden  
TEL: +46 8 621 89 00  
[info@se.sika.com](mailto:info@se.sika.com)  
[www.casco.eu](http://www.casco.eu)

#### PRODUCT DATA SHEET

Casco® Silikon  
February 2023, Version 03.01  
02051403000000115