

PRODUCT DATA SHEET

Casco® Silikon 300°C

Acid-curing high temperature resistant silicone sealant

DESCRIPTION

Casco® Silikon 300°C is an acid-curing high temperature resistant, highly elastic, low modulus silicone sealant with good adhesion to glass, ceramic tiles, aluminium, most paints and some plastics.

USES

For bonding/sealing of gaps to oven etc.
Can also be used as elastic, pressure resistant and vibration-proof gasket.

CHARACTERISTICS / ADVANTAGES

- High temperature resistant
- Is resistible to most chemicals
- Exceptionally good long-term performance

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 in your web browser.

PRODUCT INFORMATION

Composition	Basis: Acetoxy silicone Solvent: None
Packaging	40 ml tube
Shelf life	18 months
Storage conditions	Store in a cool (below +25 °C), dry place in moisture tight cartridge
Colour	Black
Density	~1040 kg/m ³
Flash point	<0 °C
Solid content by mass	Dry solids: ~25 %
Consistency	Thixotropic

TECHNICAL INFORMATION

Elongation	~250 %
Service temperature	-40 °C to +250 °C, short time up to +300 °C

Chemical resistance

It is exceptionally good to water and plasticizer is resistant to sporadic contact with oil, petrol, and grease.
Avoid contact with plasticized materials: glue lines will soften after some time.

Resistance to moisture

100 % Modulus at 23°C/50%: ~0.45 MPa

APPLICATION INFORMATION

Ambient air temperature

Humidity limit: Minimum 30 % RH

Substrate temperature

Application temperature: +5 °C - +40 °C

Curing time

Curing time: ~2 mm the first 24 hours. ~10 mm after 7 days.
Drying time: Normally 10-20 minutes depending on temperature, substrate, and thickness of adhesive layer.

Skinning time

15-25 minutes

Applied product ready for use

METAL	The adhesion is good to unionized and lacquered aluminium and stainless steel.
GLASS	Silikon 300 °C bonds perfectly to glass. Always clean the glass by wiping with ethanol or acetone (avoid contact with coatings e.g. with window frames)
PLASTICS	Silikon 300 °C has good adhesion to hard PVC, plasticized PVCx), polystyrene, ABS, polycarbonate, polyacrylatex) and epoxy.

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.

LIMITATIONS OF USE

- "Greasy" plastics like polyethylene, polypropylene and Teflon cannot be glued.
- Should not be used on substrates such as marble, concrete, fibrous cement and mortar, as the product releases acetic acid during vulcanization.
- Should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.
- May be discolored in contact with some organic elastomers, e.g. EPDM, APTK and neoprene.
- Not recommended for sealing of aquaria, please use our Glass Silicone.
- Not recommended for use on natural stone, such as marble, granite, quartzite, as it can cause staining.
- Not recommended for structural glazing bonding.
- Not suitable as a cylinder head gasket or for parts that are constantly exposed to fuels (petrol).
- Not paintable

FURTHER INFORMATION

Curing system: A small amount of acetic acid is released during the vulcanization, which is catalyzed by moisture in the air.

Keep out of reach of children.

Do not empty into drains.

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

Apply the sealant using the plastic nozzle, cut it to an appropriate size. When sealing a gap, the material must be pressed firmly into the joint to ensure complete wetting of the bonding surface.

Immediately after application tooling can be used to ensure firm, full contact with joint sides.

To make a gasket, apply a little more than needed to ensure that the whole joint is filled. Assemble the components as soon as possible, within 10 minutes. Do not expose the joint/gasket to high pressure until the sealant has cured, see technical data.

DIRECTIONS FOR USE

Casco® Silikon 300°C cures at room temperature under action of atmospheric moisture to give permanently flexible silicone rubber. Both curing and adhesion are dependent on enough moisture. If Casco® Silikon 300°C is applied under dry conditions or between watertight materials, extra time or moisture might be necessary to obtain optimum cure and adhesion.

MAINTANANCE

If the sealant is damaged but the bond is intact, cut out the damaged area, otherwise redo the sealing.

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SUBSTRATE PREPARATION

The joint interface must be clean, dry, and free from oils, loose aggregates, laitance, release agents, water proofing and other contaminants.

A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose clean, sound surfaces.

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.

Seal Remover 3987 is recommended if the sealant has cured, otherwise 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.

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