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.

For bonding/sealing of gaps to oven etc.

Can also be used as elastic, pressure resistant and vibration-proof gasket.

**TECHNICAL DATA**

- **Basis:** Acetoxy silicone
- **Curing system:** A small amount of acetic acid is released during the vulcanization, which is catalysed by moisture in the air.
- **Solvent:** None
- **Consistency:** Thixotropic
- **Density:** Approx. 1040 kg/m³
- **Dry solids:** Approx. 25 %
- **Appearance:** Black
- **Service temperature:** -40°C to +250°C, short time up to 300°C
- **100 % Modulus at 23°C/50%:** Approx. 0.45 MPa
- **Elongation:** Approx. 250%
- **Flash point:** <0°C

**CHEMICAL RESISTANCE**

Very good to water and plasticizer is resistant to sporadic contact with oil, petrol and grease.

Avoid contact with plasticised materials: glue line will soften after some time.

**SURFACE 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.

**APPLICATION**

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**

Silikon 300°C cures at room temperature under action.
of atmospheric moisture to give permanently flexible silicone rubber. Both curing and adhesion is dependent on sufficient amount of moisture. If 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.

See below table for recommendation of pre-treatment on different materials.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>Recommendation</th>
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<tbody>
<tr>
<td>METAL</td>
<td>The adhesion is good to unionized and lacquered aluminium and stainless steel.</td>
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<tr>
<td>GLASS</td>
<td>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)</td>
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<tr>
<td>PLASTICS</td>
<td>Silikon 300 °C has good adhesion to hard PVC, plasticized PVC, polystyrene, ABS, polycarbonate, polyacrylate and epoxy.</td>
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</table>

*It is recommended to make pre-tests.

**LIMITATIONS**

“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.

Is not recommended for sealing of aquaria, please use our Glass Silicone.

Is not recommended for use on natural stone, such as marble, granite, quartzite, as it can cause staining.

Is not recommended for structural glazing bonding.

Is not suitable as a cylinder head gasket or for parts that are constantly exposed to fuels (petrol).

**HANDLING AND CLEANING INSTRUCTIONS**

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.

Keep out of reach of children.

Do not empty into drains.

**MAINTANANCE**

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

**ENVIRONMENTAL ASPECTS**

For additional health and safety information consult the Safety Data Sheet.