

SPECIAL

OTTOSEAL®

S 67

Technical Datasheet



## 1-component silicone sealant based on alkoxy, neutral cross-linking

For indoor and outdoor application

### Characteristic:

- **Excellent metal adherence**  
No pre-treatment on many metals
- **Low odour**  
Convenient processing
- **Non-corrosive**  
No (oxidation) corrosion on unprotected metal surfaces
- **Good chemical resistance (e. g. to cleaning agents and disinfectants)**  
Suitable for use in areas subject to heavy chemical exposure
- **Contains fungicides**  
Resistance to mould infestation and bacteria
- **Excellent weathering, ageing and UV-resistance**  
For long-lasting indoor and outdoor applications

### Fields of application:

- Elastic joints in cleanrooms and other medical rooms with strict requirements to hygiene and frequent use of cleaning agents and disinfectants, e. g. operating theatres, medical examination rooms, medical laboratories
- Elastic joints in cleanrooms and production areas with strict requirements to hygiene, e. g. electronic sector - chip production
- Production rooms for medicines and other medical products
- Sealing of ventilation systems
- Hospitals, food processing factories
- Sealing of joints in refrigerated warehouses

### Standards and tests:

- Tested for applications in the cleanroom area and in accordance with DIN EN ISO 846 by ISEGA Forschungs- und Untersuchungsgesellschaft mbH Aschaffenburg
- Suitable for use in ventilation systems according to VDI 6022, sheet 1
- Suitable for applications according to IVD instruction sheet no. 31+35 (IVD = German industry association sealants)
- French VOC-emission class A+
- Classification according to building certification systems, see the sustainability data sheet
- Declaration of no objection – tested for use in food-related area (ISEGA Forschungs- und Untersuchungs-Gesellschaft mbH, Aschaffenburg, Germany)
- EMICODE® EC 1 Plus - very low emission

### Important information:

Before applying this product the user has to ensure that the materials in the area of contact (solid, liquid and gaseous) are compatible with it and also amongst each other and do not damage or alter (e. g. discolour) each other. As for the materials that will be used at a later stage in the surrounding area of the product the user has to clarify beforehand that the substances of content or evaporations do not lead to an impairment or alteration (e. g. discolouration) of the product. In case of doubt the user should consult the respective manufacturer of the material.

Avoid contact with materials which contain bitumen and which release solvents, e. g. butyl, EPDM, neoprene, insulating- and bituminous paint.

Due to interaction with liquid or gaseous chemicals e.g. iodine, bromine or aldehyde containing substances, the silicone may discolour. It is advisable to carry out tests before usage!

Please contact our technical department if joints are exposed to heavy chemical or physical load.

Indoors without daylight or in the case of sporadic artificial lighting, alkoxy/oxime/amine silicone sealants may exhibit a yellowing over time, especially in transparent and light colours. If technically possible, it is recommended to use acetate silicones in these cases.

The required vulcanization time prolongs with increasing thickness of the silicone layer. One-component silicones are not suitable for full-area bonding, unless there are specific structural conditions that require such full-area application. If one-component silicones are to be used for thickness layers of more than 15 mm please contact our technical department beforehand.

Remark on the processing of the colour "stainless steel": Please note that when "modelling" the silicone, i. e. when silicone layers are pushed on top of each other (e. g. in corner areas) dark, clearly visible dividing lines could appear. These dividing lines can not be removed by smoothing the lines afterwards. This effect occurs solely for the colour "stainless steel" and is caused by a special colour pigment which is necessary to create the metallic effect. It is a typical characteristic of the colour "stainless steel" and it does not represent a deficiency of the material. In order to avoid such effect, layers of silicone should not be pushed on top of each other when smoothing material.

Upon restoring of joints contaminated with mould the existing elastic sealant must be removed completely. Before re-jointing, the affected jointing areas are to be treated with OTTO Anti-Mildew Spray to remove possibly existing fungal spores. Otherwise a new mould attack may occur in the joints again, despite the mould protection technology of the sealant.

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#### Technical properties:

Skin-forming time at 23 °C/50 % RH [minutes]	~ 10
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2 - 3
Processing temperature from/to [°C]	+ 5 / + 35
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm <sup>3</sup> ]	~ 1,3
Density at 23 °C according to ISO 1183-1, transparent, stainless steel [g/cm <sup>3</sup> ]	~ 1,0
Shore-A-hardness according to ISO 868	~ 26
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm <sup>2</sup> ]	~ 0,4
Tensile expansion according to ISO 37, type 3 [%]	~ 700
Tensile strength according to ISO 37, type 3 [N/mm <sup>2</sup> ]	~ 1,4
Temperature resistance from/to [°C]	- 40 / + 120
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12 (1)

1) from date of manufacture

These data are not suitable for the issue of specifications. Please contact OTTO-CHEMIE before issuing specifications.

#### Pretreatment:

The adherent surfaces have to be clean, free from fat, dry and sustainable.

All adherent surfaces must be clean and any contaminant such as release agents, preserving agents, grease, oil, dust, water, old adhesives or sealants and other substances which could affect adhesion, should be removed. Cleaning of non-porous substrates: Apply OTTO Cleaner T (airing time approx. 1 minute) using a clean, lint-free cotton cloth. Cleaning porous substrates: Clean surfaces with steel-wire brush e. g. or a grinding disk to remove loose particles.

#### Primer Table:

The demands on elastic sealings and bondings depend on the respective exterior influences. Extreme fluctuations in temperature, tensile or shear forces, repeated contact with water etc. demand high requirements of a bonding. In such cases it is advisable to apply primer according to the recommendations of our technical department (e. g. +/OTTO Primer 1216) in order to achieve a resilient bonding.

Acrylic glass/PMMA	+ / 1217
Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	1101 / 1216 / T
Aluminium powder-coated (contains teflon)	T

Concrete	1215
Stainless steel	+ / 1216
Fibre cement	1215
Glass	+
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	+
Wood, varnished (solvent systems)	+
Wood, varnished (aqueous systems)	+
Wood, untreated	+ / 1215 (1)
Ceramic, glazed	+
Ceramics, unglazed	+
Copper	+ (2)
Brass	+ (2)
Natural stone / marble	-
Polyester	+
Cellular concrete	1215
Plaster	1215
PVC unplasticized	+ / 1217
PVC-soft-foils	+
Tinplate	+
Zinc, galvanised iron	+

1) Upon high exposure to water please contact our Technical Department.

2) The reaction of neutral silicone with non-ferrous metals, such as copper, brass, etc. is possible. Upon curing unblocked air admission is necessary.

+ = good adherence without primer

- = not suitable

T = Test/pilot test advised

#### Application information:

Due to the many possible influences during and after application, the customer always has to carry out trials first.

Please observe the recommended shelf life which is printed on the packaging.

We recommend to store our products in unopened original packagings dry (< 60 % RH) at temperatures of +15 °C up to +25 °C. If the products are stored and / or transported at higher temperatures / air humidity for longer periods (some weeks), a diminution of durability or a change of material characteristics may arise.

#### Packaging:

	310 ml cartridge	580 ml aluminium foil bag
grey	S67-04-C02	S67-08-C02
manhattan	S67-04-C43	S67-08-C43
RAL 7035	S67-04-C7035	S67-08-C7035
RAL 9002	S67-04-C9002	S67-08-C9002
RAL 9010	S67-04-C9010	S67-08-C9010
RAL 9016	S67-04-C9016	S67-08-C9016
stainless steel	S67-04-C197	S67-08-C197
transparent	S67-04-C00	S67-08-C00
<b>Packaging unit</b>	<b>20</b>	<b>20</b>
<b>Pieces per pallet</b>	<b>1200</b>	<b>600</b>

#### Safety precautions:

Please observe the material safety data sheet.

#### Disposal:

Information about disposal: Please refer to the material safety data sheet.

#### Warranty information:

All information in this publication is based on our current technical knowledge and experience. However, since conditions and methods of use and application of our products are beyond our control, we suggest that you test the product before final use. Information given in this technical data sheet and explanations of OTTO-CHEMIE in connection with this technical data sheet (e.g. service description, reference to DIN

regulations etc.) is not to be seen as a warranty. Warranties require a separate written declaration of OTTO-CHEMIE to prove their validity. The characteristics stated in this data sheet define the characteristics of the article broadly and conclusively. Suggestions of use are not to be taken as confirmation of the appropriateness for the recommended intended use. We reserve the right to alter the product, adjusting it according to technical progress and new developments. We are at your disposal both for inquiries as well as specific application problems. If a governmental approval or clearance is necessary for the application of our products, the user is responsible for the obtainment of such. Our recommendations do not excuse the user from the obligation to take into consideration the possibility of infringement of third parties' rights and - if necessary - resolving it. For the rest our general terms and conditions apply, in particular regarding a possible liability for defects. You can find our general terms and conditions on our homepage: <http://www.otto-chemie.de/en/terms-and-conditions>

