

# OTTOSEAL® S 67 SPECIAL

The low-odour silicone for clean rooms and ventilation systems



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

For indoor and outdoor application

S 67



## Characteristics

- ▶ Excellent metal adhesion - No pre-treatment on many metals
- ▶ Low odour - No odour nuisance
- ▶ Does not cause corrosion on unprotected metal surfaces
- ▶ Good chemical resistance (e. g. to cleaning agents and disinfectants) - No damage by aggressive cleaning and disinfection
- ▶ Contains fungicides - Resistance to mould infestation
- ▶ Excellent weathering, ageing and UV-resistance

## Fields of application

- ▶ For joints in cleanrooms and production areas with strict requirements to hygiene, e.g. electronic sector - chip production
- ▶ For joints in production rooms for medicine and other medical items
- ▶ For joints in rooms with strict hygienic requirements and frequent use of cleaning agents and disinfectants, e. g. operating theatres, medical examination rooms, medical laboratories
- ▶ Sealing of joints in refrigerated warehouses
- ▶ Suitable for joints in hospitals and food processing companies
- ▶ Sealing of air condition and ventilation systems, for example kitchen exhaust ducts

## Standards and tests

- ▶ Meets the requirements for fire behavior according to EN 13501: Class E
- ▶ 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
- ▶ 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
- ▶ French VOC-emission class A+
- ▶ Suitable for applications according to IVD instruction sheet no. 31+35 (IVD = German industry association sealants)

## Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 10
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2 - 3



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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 <sup>1</sup>

1) from production

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.

The adhesive surfaces must be cleaned and any contamination such as release agents, preservatives, grease, oil, dust, water, old adhesives/sealants and other substances impairing adhesion must be removed. Cleaning of non-porous substrates: Clean with OTTO Cleaner T (no flash-off time required) and a clean, lint-free cloth. Cleaning porous substrates: Clean surfaces mechanically, e.g. with a steel brush or a grinding disc, 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 <sup>1</sup>
Ceramic, glazed	+
Ceramics, unglazed	+
Copper	+ <sup>2</sup>
Brass	+ <sup>2</sup>
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 un-blocked air admission is necessary.

- + = good adherence without primer
- = not suitable
- T = Test/pilot test advised

### 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.

### 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

#### Glossy colors

	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>Pieces per packaging unit</b>	<b>20</b>	<b>20</b>
<b>Pieces per pallet</b>	<b>1200</b>	<b>600</b>

Due to typographical reasons the colours shown below may differ from the original colours of the products. For an exact colour display please request our original colour charts.

## **Safety precautions**

Please observe the material safety data sheet.

## **Disposal**

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

## **Brand information**

EMICODE® is a registered trademark of GEV e. V. (Düsseldorf, Germany)

## **Warranty information**

The above information and our technical application advice, whether verbal, in writing or by means of tests, are provided to the best of our knowledge, but are non-binding, including with regard to any third-party property rights. The information in this publication does not exempt the processor from carrying out their own tests on our products with regard to their suitability for the intended processes and purposes. The application, use and processing of our products and the products manufactured on the basis of our technical application advice are beyond our control and are therefore the sole responsibility of the processor. If the application for which our products are used is subject to an official authorisation requirement, the user is responsible for obtaining these authorisations. We reserve the right to adapt the product to technical progress and new developments. For the rest, we refer to our General Terms and Conditions, in particular with regard to any liability for defects. You can find our GTC at [www.otto-chemie.de](http://www.otto-chemie.de).