

1-component silicone adhesive and sealant on alkoxy basis condensation curing

For indoor and outdoor application

S 88



### Characteristics

- ▶ Compatible with many insulating glass edge compound materials (see compatibility list on website) - Suitable for processing insulating glass panes
- ▶ Compatible with PVB-foils according to the criteria of the ift-guideline DI-02/1 for use in window rebates with covered glass edge
- ▶ Very good adhesion on many substrates even without primer (see the primer table)
- ▶ Low odour - No odour nuisance
- ▶ High elongation stress value - High stability of the adhesion
- ▶ High resistance to notches and tearing - Resistant to high mechanical stresses
- ▶ Excellent weathering, ageing and UV-resistance

### Fields of application

- ▶ Bonding and sealing of windows - direct glazing - bonding of insulated glass units in the window casements (PVC, wood, aluminium) at the glass edge (~10 mm depth)
- ▶ Elastic bonding and sealing of various materials, e. g. glass, wood, metal and plastics

### Standards and tests

- ▶ Tested according to DIN 4102-B1 - hardly inflammable
- ▶ EMICODE® EC 1 Plus - very low emission

### Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 20
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2
Processing temperature from/to [°C]	+ 5 / + 40
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,4
Viscosity at 23 °C	pasty, stable
Shore-A-hardness according to ISO 868	~ 40
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm²]	~ 1,0
Tensile expansion according to ISO 37, type 3 [%]	~ 480
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 3,0
Temperature resistance from/to [°C]	- 40 / + 150
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	9 <sup>1</sup>

1) from production

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

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## Pretreatment

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

## 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.

Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	+ / 1226
Glass	+
Glass, enamelled	+
Wood, varnished / painted	+ / 1226
PVC unplasticized	+ / 1226
Insulation glass secondary edge sealing	T 1

1) With regard to adhesion and compatibility to materials used for insulation glass edge bonding please consult our latest compatibility overview. You can download the most recent list from our website.

+ = 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.

The constructional details of the bonding have to be checked with our technical service department, in particular the compatibility with contact materials, such as insulating glass edge bonds, sealants etc.

The production of windows complying to standard RC 2 or RC 3 does not only depend on the use of an adhesive and the correct application thereof but also on other constructional features in no connection with the adhesive (screwed joints, fixings etc.) The use of an adhesive alone is no guarantee for reaching standards RC 2 or RC 3.

The vulcanization time of 1-component adhesives increases with increasing layer thickness. To accelerate curing, the adhesive can be moistened with a water spray after application. If a depth of adhesive > 15mm is required (basic rebate bonding), we recommend our 2-component adhesives OTTOCOLL® S 81 or OTTOCOLL® S 670.

During curing small amounts of alcohol are released. Ensure good ventilation during application and curing.

## Application information


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

If smoothing agent is used, the silicon surface may remain slightly sticky even after hardening. We recommend smoothing the product in a dry state.

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

We recommend to store our products in unopened original packaging 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

	<b>580 ml aluminium foil bag</b>
 black	S88-08-C04
<b>Pieces per packaging unit</b>	<b>20</b>

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**580 ml aluminium foil bag**

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<b>Pieces per pallet</b>	<b>600</b>
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Due to typographical reasons the colours shown below may differ from the original colours of the products.

### **Safety precautions**

Please observe the material safety data sheet.  
After curing, the product is odourless.

### **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).