

# OTTOCOLL®

## S 88

### Technical Datasheet



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

For indoor and outdoor application

#### Characteristic:

- **Compatible with many insulating glass edge compound materials - see compatibility list**  
Suitable for processing insulating glass panes
- **Very good adhesion on many substrates even without primer**  
Often primerless processing possible, see primer table in technical data sheet
- **Low odour**  
Convenient processing
- **High elongation stress value**  
High stability of the adhesion
- **High resistance to notches, tension and tearing**  
Resistant to high mechanical stresses
- **Excellent weathering, ageing and UV-resistance**  
For long-lasting indoor and outdoor applications
- **Compatible with PVB-foils according to the criteria of the ift-guideline DI-02/1 for use in window rebates with covered glass edge**  
Suitable for processing VSG

#### 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:

- 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.

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.  
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**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	~ 45
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 1,0
Tensile expansion according to ISO 37, S3A [%]	~ 480
Tensile strength according to ISO 37, S3A [N/mm²]	~ 3,0
Temperature resistance from/to [°C]	- 40 / + 150
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	9 (1)

1) from date of manufacture

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

**Pretreatment:**

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.  
 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 request the most recent list from our technical department.

+ = 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:**

580 ml aluminium foil bag

black

S88-08-C04

**Packaging unit**  
**Pieces per pallet**

**20**  
**600**

**Safety precautions:** Please observe the material safety data sheet.  
After curing the product is completely odourless.

**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>