

1-component silicone sealant based on oxime, neutral cross-linking, MEKO-free For indoor and outdoor application S 7

Characteristics

- ▶ Compatible with insulating glass edge compound materials - see compatibility list
- ▶ Compatible with PVB sheets according to the criteria of ift guideline DI-02/1 - Suitable for processing VSG
- ▶ Excellent weathering, ageing and UV-resistance
- ▶ Very good adhesion on many substrates even without primer (see the primer table)
- ▶ High resistance to notches and tearing - Resistant to high mechanical stresses
- ▶ User-friendly thanks to matt surface
- ▶ Long skin-formation - Long processing time
- ▶ Does not cause corrosion on unprotected metal surfaces

Fields of application

- ▶ For the weather sealing of structural glazing, angled glazing, timber-glass-composite elements, roof glazing and conservatories
- ▶ For jointing on glass elements
- ▶ For sealing on insulating glass units

Standards and tests

- ▶ Tested according to EN 15651 – Part 1: F EXT-INT CC 25 LM
- ▶ Tested according to EN 15651 – Part 2: G CC 25 LM
- ▶ Tested fire behaviour in accordance with EN 13501: class E
- ▶ According to the requirements of DIN 18540-F
- ▶ According to the requirements of ISO 11600 F 25 LM

Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 15
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2 - 3
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,2
Shore-A-hardness according to ISO 868	~ 30
Permissible movement [%] according to ISO 9047	50
Permissible movement capability [%]	25
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm²]	~ 0,4
Tensile expansion according to ISO 37, type 3 [%]	~ 600
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 1,6
Temperature resistance from/to [°C]	- 40 / + 180
Shrinkage of volume according to ISO 10563 [%]	~ 6



Shelf life at 23 °C/50 % RH for cartridge/foil bag [months] 12

Shelf life at 23 °C/50 % RH for pail/drum [months] 6

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

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.

The OTTO Primer 1215, 1217 and 1218 are subject to the obligation to inform and to keep records according to the German Regulation of Chemical Interdiction (amongst others prohibition of self service) since 01.11.2005. Please observe the Technical Data Sheets (<http://www.otto-chemie.de/en/data-sheets-certificates>).

Acrylic glass/PMMA	T
Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	1101 / T
Aluminium powder-coated (contains teflon)	T
Concrete	+ / 1215
Chrome	+
Stainless steel	+
Sintered / enamelled surfaces	+
Glass	+ / 1226
Glass, coated	+ / T
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
Melamine resin panels	1225 / T
Brass	+ ²
Polycarbonate	T
Polyester	+
Polyethylene (PE)	-
Polypropylene	T
Porcelain-coated surfaces	+
PVC unplasticized	1217
PVC-soft-foils	1217
Teflon® (PTFE, Polytetrafluorethylen)	-
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.

During the curing process of the material reaction products of the crosslinker are released.

Ensure good ventilation during application and curing.

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.

If using smoothing agent remove the remaining water streaks on the adjoining surfaces immediately after sealing. If the surfaces are cleaned at a later time, permanent streaks may remain.

Application information

Closed-cell PE back-up foam should be inserted into the joint in order to avoid 3-flank-adhesion.

The joint dimension must be chosen in a way, for the maximum joint movement (expansion and compression) not to exceed +/- 25 % of the joint width.


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
 black	S7-04-C04	S7-08-C04
Pieces per packaging unit	20	20
Pieces per pallet	1200	600

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

Teflon® is a registered brand of The Chemours Company FC, LLC, Wilmington Del., US

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.