

OTTOSEAL®**S 9****Technical Datasheet****1-component silicone sealant based on oxime, neutral cross-linking, MEKO-free**

For indoor and outdoor application

Characteristic:

- **Compatible with PVB sheets according to ift guideline DI-02/1**
Suitable for processing VSG
- **Non-corrosive**
No (oxidation) corrosion on unprotected metal surfaces
- **Very good adhesion on many substrates even without primer**
Often primerless processing possible, see primer table in technical data sheet
- **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

Fields of application:

- Secondary edge sealing for manufacturing UV-resistant insulating glass units in connection with butyl rubber as primary sealing

Standards and tests:

- Tested according to EN 1279, part 2 with gas-filled multi-panel insulating glass with spacers made of aluminium and tested according to EN 1279, part 4, paragraphs 5.1 and 5.2 by the MPA Darmstadt, Germany
- Suitable for applications according to IVD instruction sheet no. 35 (IVD = German industry association sealants)
- French VOC-emission class A+

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 must not be used for full-surface bonding applications unless special constructional prerequisites are met. If one-component silicones are to be used for thickness layers of more than 15 mm please contact our technical department beforehand.

A primary sealing such as polyisobutylene (PIB) is absolutely necessary as a vapour barrier.

Technical properties:

Skin-forming time at 23 °C/50 % RH [minutes]	~ 10
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2
Processing temperature from/to [°C]	+ 5 / + 35
Viscosity at 23 °C	pasty, stable

Density at 23 °C according to ISO 1183-1 [g/cm ³]	~ 1,3
Shore-A-hardness according to ISO 868	~ 36
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm ²]	~ 0,8
Tensile expansion according to ISO 37, S3A [%]	~ 330
Tensile strength according to ISO 37, S3A [N/mm ²]	~ 1,6
Temperature resistance from/to [°C]	- 40 / + 180
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12 (1)
Shelf life at 23 °C/50 % RH for pail/drum [months]	6 (1)
Water-vapour diffusion according to DIN 53122 [g/m ² *d]	~ 11,7

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.

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	20 l hobcock
black	S9-04-C04	S9-08-C04	on request
Packaging unit	20	20	1
Pieces per pallet	1200	600	16

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>