

OTTOSEAL®**S 125**

Technical Datasheet

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

For indoor and outdoor application

Characteristic:

- **Contains fungicides**
Resistance to mould infestation
- **Non-corrosive**
No (oxidation) corrosion on unprotected metal surfaces
- **Excellent weathering, ageing and UV-resistance**
For long-lasting indoor and outdoor applications

Fields of application:

- Sealing of joints on windows and doors made of wood, metal and plastic
- Expansion joints in prefabricated concrete constructions
- Sealing of facades, parapet elements, roller blind housings and metal building constructions
- Expansion joints in bathroom areas
- For the external sealing of mirrors in connection with materials such as ceramic, metal, glass etc.

Standards and tests:

- Tested according to EN 15651 – Part 1: F EXT-INT CC 25 LM
- Tested according to EN 15651 – Part 3: XS 1
- Tested according to EN 15651 – Part 4: PW INT 12.5 E
- Suitable for applications according to IVD instruction sheet no. 3-1+3-2+7+9+14+19-1+20+24+25+27+29+31+32+35 (IVD = Germanindustry association sealants)
- French VOC-emission class A+
- Declaration in "baubook" Austria
- EMICODE® EC 1 Plus R - very low emission
- For conformity with DGNB and LEED®, see the sustainability data sheet
- Tested fire behaviour in accordance with EN 13501: class E

Important information:

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

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.

Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant.

During curing small amounts of alcohol 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.

Smoke from cigarettes or similar environmental influences may lead to discolouring of the sealant. 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. 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.

Technical properties:

Skin-forming time at 23 °C/50 % RH [minutes]	~ 10
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2 - 3
Processing temperature from/to [°C]	+ 5 / + 35
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,0
Shore-A-hardness according to ISO 868	~ 21
Permissible movement capability [%]	25 (1)
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 0,4
Tensile expansion according to ISO 37, S3A [%]	~ 700
Tensile strength according to ISO 37, S3A [N/mm²]	~ 1,4
Temperature resistance from/to [°C]	- 40 / + 120
Shelf life at 23 °C/50 % RH for pail/drum [months]	12
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12

1) Please pay attention to standards and tests

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.

Acrylic glass/PMMA (Plexiglas®, etc.)	+ / 1217
Acrylic bathroom surfaces (e. g. bath tubs)	+ / 1217
Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	T
Concrete	1215
Stainless steel	+ / 1216
Epoxid resin coating	T
Fibre cement	1215
Glass	+
Wood, untreated	+ / 1215 (1)
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	+
Wood, varnished (solvent systems)	+
Wood, varnished (aqueous systems)	+
Ceramic, glazed	+ (2)
Ceramics, unglazed	+
Artificial stone	OTTOSEAL® S 70
Copper	+
Melamine formaldehyde resins (e. g. Resopal®)	1217
Brass	+

Natural stone / marble	OTTOSEAL® S 70
Polyester	+
Polypropylene	-
Cellular concrete	1215
Plaster	1215
PVC unplasticized	+ / 1217
PVC-soft-foils	+
Tinplate	+
Zinc, galvanised iron	+

- 1) Upon high exposure to water please test beforehand.
 2) When using ceramic tiles with a special surface coating such as Ceramicplus of Villeroy + Boch we recommend a pre-treatment with OTTO Cleanprimer 1226. When using ceramic tiles with other surface coatings it is advisable to contact our Technical Department or make preliminary tests.

+ = 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:

	310 ml cartridge	400 ml aluminium foil bag
RAL 7047	on request	S125-07-C7047
RAL 9001	S125-04-C9001	S125-07-C9001
alu	S125-04-C14	on request
anthracite	S125-04-C376	S125-07-C376
anthracite grey	S125-04-C137	S125-07-C137
concrete grey	S125-04-C6216	S125-07-C6216
fair jasmin	S125-04-C112	S125-07-C112
joint white	S125-04-C69	on request
linsey grey	S125-04-C433	S125-07-C433
manhattan	S125-04-C43	S125-07-C43
matt anthracite grey	S125-04-C6831	S125-07-C6831
matt linsey grey	S125-04-C6835	S125-07-C6835
matt sanitary grey	S125-04-C6834	S125-07-C6834
matt silver-grey	S125-04-C6645	S125-07-C6645
matt snow-white	S125-04-C6832	S125-07-C6832
sanitary grey	S125-04-C18	S125-07-C18
silver-grey	S125-04-C94	S125-07-C94
snow-white	S125-04-C116	S125-07-C116
transparent	S125-04-C00	S125-07-C00
transparent-grey	S125-04-C284	S125-07-C284
white	S125-04-C01	S125-07-C01
Packaging unit	20	20
Pieces per pallet	1200	900

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>