

OTTOSEAL®**S 113****Technical Datasheet****Characteristics:**

- Neutral-curing 1-component silicone sealant
- Tack-free surface
- Excellent weathering, ageing and UV-resistance
- Paintable with many coating systems (preliminary tests necessary)
- Compatible with coatings according to DIN 52452
- Non-corrosive
- Contains fungicides

Fields of application:

- Glazing and sealing application on wooden windows
- Sealing of connecting joints on windows and doors made of wood, metal and plastic
- Expansion and connecting joints on prefabricated concrete and cellular concrete units
- Sealing of joints on façades, metal constructions, terraces and balconies

Standards and tests:

- According to the requirements of DIN 18545, part 2, resistance group D
- According to the requirements of DIN 18540-F

Important information:

Before applying the adhesive / sealant the user has to ensure that the materials in the area of contact (solid, liquid and gaseous) are compatible with the adhesive / sealant and do not damage or alter (e. g. discolour) them. As for the materials that will be used at a later stage in the surrounding area of the adhesive / sealant 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 adhesive / sealant. In case of doubt the user should consult the respective manufacturer of the material.

Due to the multitude of paint systems for wooden windows a general statement regarding adhesion properties or compatibility is not possible. Individual preliminary tests are required.

According to relevant standards, elastic sealants should generally not be painted all-over, since mechanical stress and movement can cause cracks in the non-elastic-paints.

Avoid contact with materials which contain bitumen and which release solvents, e. g. butyl, EPDM, neoprene, insulating- and bituminous paint.

Do not stack or pack sealed windows/doors earlier than 24 hours after sealing. Otherwise there is a risk of a discolouration of the painting.

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

Ensure good ventilation during application and curing.

After curing the product is completely odourless, physiologically harmless and unmodified.

The required vulcanization time prolongs with increasing thickness of the silicone layer. One-component silicones must not be used for full-surface bonding applications except special xzy are provided. 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. Please observe the Technical Datasheet of OTTO Anti-Mildew Spray.



Technical properties:

Skin-forming time at 23 °C / 50 % RAH	approx. 10 - 20 minutes
Curing in 24 hours at 23 °C / 50 % RAH	approx. 2 - 3 mm
Processing temperature	+ 5 °C up to + 35 °C
Viscosity (23 °C)	pasty, stable
Density at 23 °C	approx. 1,33 g/cm ³
Shore-A-hardness (DIN 53 505)	approx. 24
Permissible movement capability	25 %
Stress expansion modulus at 100 % (DIN 53 504, S3A)	approx. 0,4 N/mm ²
Breaking expansion (DIN 53 504, S3A)	approx. 600 %
Tensile strength (DIN 53 504, S3A)	approx. 1,1 N/mm ²
Temperature resistance	- 40 °C up to + 150 °C
Shelf life at 23 °C / 50 % RAH for cartridge / foil bag	12 months

These data are not suitable for the issuing 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.

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

Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	T / 1101
Acrylic bathroom surfaces (e. g. bath tubs)	+ / 1217
Acrylic glass / PMMA (Plexiglas [®] , etc.)	OTTOSEAL [®] S 72
Concrete	+ / 1215
Lead	1216
Chrome	1216
Stainless steel	+ / 1216
Fibre cement	+ / 1215
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	+
Wood, varnished (solvent systems)	+
Wood, varnished (aqueous systems)	+
Wood, untreated	+ / 1215 (1)
Ceramic, glazed	+
Ceramics, unglazed	+ / 1215
Artificial stone	OTTOSEAL [®] S 70
Plastic profiles (unplasticized, e. g. Vinnolit)	+ / 1217
Copper	+ / 1216 (2)
Melamine formaldehyde resins (e. g. Resopal [®])	T / 1225
Brass	+ / 1216 (3)
Natural stone / marble	OTTOSEAL [®] S 70
Polyester	+
Polypropylene	-
Cellular concrete	1215
Plaster	1215
PVC unplasticized	+ / 1217
PVC - soft - foils	1217



Tinplate	+ / 1216
Zinc, galvanised iron	+ / 1216

+ = good adherence without primer

- = not suitable

T= Test/pilot test advised

- 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 unblocked air admission is necessary.
- 3) The reaction of neutral silicone with non-ferrous metals, such as copper, brass, etc. is possible. Upon curing unblocked air admission is necessary.

Application information:

Because of the variety of possible influences while processing and applying customer tests are required.

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

We recommend to store our products in unopened original packagings dry (< 60 % RAH) 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:

Please see the packagings available from stock in our current General Catalogue for Building Products.

Trading unit/Container	Packaging unit	Pieces per pallet
310 ml cartridge	20	1200

Colours:

C05	brown	C9010	RAL 9010
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Safety precautions:

Please observe the material safety data sheet.

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 experiences. However, since conditions and methods of use and application of our products are beyond our control, we suggest you to 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. If you happen to not have our general terms and conditions at hand, we will gladly send them to you upon request. You can also find them on our homepage: http://www.otto-chemie.de/englisch/unternehmen/agn/AGB-Englisch_04-05.pdf



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