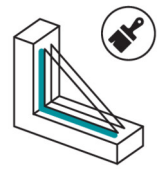


OTTOSEAL® S 113 SPECIAL

The paintable silicone sealant for glazing



1-component silicone sealant based on oxime, neutral cross-linking, MEKO-free

For indoor and outdoor application

S 113

Characteristics

- ▶ Compatible with coatings according to DIN 52452 - No interaction with existing and adjacent coatings
- ▶ Excellent weathering, ageing and UV-resistance
- ▶ Contains fungicides - Resistance to mould infestation
- ▶ Does not cause corrosion on unprotected metal surfaces

Fields of application

- ▶ Window pane sealing on wooden windows
- ▶ Sealing of joints on façades, metal constructions
- ▶ Sealing of joints on windows and doors made of wood, metal and plastic
- ▶ Sealing of expansion and connections joints on prefabricated concrete and cellular concrete 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
- ▶ Complies with the requirements of DIN 18545, stress group E
- ▶ French VOC-emission class A+

Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 10 - 25
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]	~ 1,3
Shore-A-hardness according to ISO 868	~ 26
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 [%]	~ 700
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 1,2
Temperature resistance from/to [°C]	- 40 / + 150
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12

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

Pretreatment

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OTTO
CHEMIE

SEALING & BONDING



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.

Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	T / 1101
Acrylic bathroom surfaces (e. g. bath tubs)	+ / 1217
Acrylic glass/PMMA	OTTOSEAL® S72
Concrete	1225
Lead	1216
Chrome	1216
Stainless steel	+ / 1216
Fibre cement	+ / 1215
Glass	+ / 1226
Wood, painted (solvent systems)	+ ¹
Wood, painted (aqueous systems)	+ ¹
Wood, varnished (solvent systems)	+ ¹
Wood, varnished (aqueous systems)	+ ¹
Wood, untreated	+ / 1215 ²
Ceramic, glazed	+
Ceramics, unglazed	+ / 1215
Artificial stone	OTTOSEAL® S70
Plastic profiles (unplasticized, e. g. Vinnolit)	+ / 1217
Copper	+ / 1216 ³
Melamine resin panels	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

1) Due to the large number of painting systems for wooden windows, it is not possible to make a general statement regarding bonding and compatibility. For this reason, individual preliminary experiments are necessary.

2) Upon high exposure to water please contact our Technical Department.

3) 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.

According to the state of the technology shown in for example the IVD-info sheet no. 12, movement equalising sealants cannot, for technical reasons, be completely painted over. If in exceptional cases this is demanded or necessary the coating has to follow the equalising movement of the sealant without optical or mechanical shortcomings. The responsibility to observe this state of the technology rests solely with the user of the coating.

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.

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.

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.

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.

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

Glossy colors

	310 ml cartridge
 RAL 9010	S113-04-C9010
Pieces per packaging unit	20
Pieces per pallet	1200

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.

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.