

OTTOSEAL® S 110







Technical Datasheet

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

For indoor and outdoor application

Characteristic:

- Highly abrasion-resistant and streak-free according to ift-guideline VE-04/2
 - Cleaning without streaks
- Contains fungicides

Resistance to mould infestation

- 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
- Excellent early resistance to stress

Safety in the production process

- Good compatibility with paints according to DIN 52452 (not paintable)
 No interaction with existing and adjacent coatings
- Excellent weathering, ageing and UV-resistance
 For long-lasting indoor and outdoor applications

Fields of application:

- Expansion joints on prefabricated concrete and cellular concrete units
- Sealing of joints on façades, metal constructions
- Sealing of joints on windows and doors made of wood, metal and plastic
- · Sealing double-glazings (e. g. "Profilit")
- Window pane sealing on wooden windows
- Suitable for sealing glazing units
- Expansion joints in bathroom areas

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 according to EN 15651 Part 3: XS 1
- Tested according to EN 15651 Part 4: PW INT 12.5 E
- Tested according to ift-guideline VE-04/2
- According to the requirements of DIN 18540-F
- According to the requirements of ISO 11600 G 25 LM
- Tested according to FCBA (CTBA) L 114 (suitability of sealants for window pane sealing on wooden windows)
- Declaration of no objection tested for use in food-related area (ISEGA Forschungs- und Untersuchungs-Gesellschaft mbH, Aschaffenburg, Germany)
- Suitable for applications according to IVD instruction sheet no. 3-1+3-2+7+9+10+13+14+19-1+20+22+24+25+27+29+31+32+35 (IVD = German industry association sealants)

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- Quality seal of the IVD (Industrial association for sealants, registered society), tested by the ift Rosenheim (Institute of window engineering, registered society)
- According to regulation (EG) no. 1907/2006 (REACH)
- French VOC-emission class A+
- Declaration in "baubook" Austria
- EMICODE® EC 1 Plus very low emission
- Classification according to building certification systems, see the sustainability data sheet
- Tested fire behaviour in accordance with EN 13501: class E

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.

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.

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.

Smoke from cigarettes or similar environmental influences may lead to discolouring of the sealant. Indoors without daylight or in the case of sporadic artificial lighting, alkoxy/oxime/amine silicone sealants may exhibit a yellowing over time, especially in transparent and light colours. If technically possible, it is recommended to use acetate silicones in these cases.

For the sealing butt joints between insulating glass with UV-resistant edge bond based on silicone (e. g. angled glazing, structural glazing façades etc.) we recommend OTTOSEAL® S 7.

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.

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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, coloured [g/cm³]	~ 1,2
Density at 23 °C according to ISO 1183-1, transparent [g/cm³]	~ 1,0
Shore-A-hardness according to ISO 868, coloured	~ 25
Shore-A-hardness according to ISO 868, transparent	~ 20
Permissible movement capability [%]	25 (1)
Class according to ISO 11600	25LM
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm ²] ~ 0,4
Tensile expansion according to ISO 37, type 3 [%]	~ 550
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 1,5
Temperature resistance from/to [°C]	- 40 / + 180
Extrusion rate according to ISO 8394-1 [g/min.]	50 - 150
Shrinkage of volume according to ISO 10563 [%]	~ 7
Shelf life at 23 °C/50 % RH for pail/drum [months]	12 (2)
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12 (2)

- 1) Please pay attention to standards and tests
- 2) from date of manufacture

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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.

A	
Acrylic glass/PMMA	-
Acrylic bathroom surfaces (e. g. bath tubs)	+ / 1101
Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	1101 / T
Aluminium powder-coated (contains teflon)	T
Concrete	+ / 1105 / 1215
Concrete block	-
Lead	+ / 1216
Chrome	1216
Stainless steel	+ / 1216
Iron	1216
Epoxid resin coating	+
Epoxid resin mortar	+
Fibre cement	1105 / 1215
Glass	+ / 1226
Wood, painted (solvent systems)	+ / T (1)
Wood, painted (aquaeous systems)	+ / T (1)
Wood, varnished (solvent systems)	+ / T (1)
Wood, varnished (aquaeous systems)	+ / T (1)
Wood, untreated	1215 / 1226 (2)
Ceramic, glazed	+
Ceramics, unglazed	+
Clinker	1215
Artificial stone	-
Plastic profiles, e. g. Vinnolit	+ / 1217 / 1227 (3)
Copper	+ (4)
Melamine resin panels	1225
Brass	+ (4)
Natural stone / marble	-
Polyester	+
Polypropylene	-
Cellular concrete	1105 / 1215
Plaster	+ / 1105 / 1225
PVC unplasticized	+ / 1217 / 1227
PVC-soft-foils	1217 / 1227
Tinplate	1216
Zinc, galvanised iron	+
, 5	

- 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) With OTTOSEAL® S 110 transparent a pre-treatment with OTTO Primer 1217 is advisable. And foil-coated plastics should generally be pre-treated with OTTO Primer 1217.
- 4) The reaction of neutral silicone with non-ferrous metalls, such as copper, brass, etc. is possible. Upon curing unblocked air admission is necessary.







- + = 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 diminuition of durability or a change of material characteristics may arise.

Packaging:

Paints filled (matte)

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ochre S110-04-C31 on request S110-08-C31 on request pergamon S110-04-C84 on request on request on request pine S110-04-C88 on request on request on request RAL 6009 S110-04-C6009 on request on request on request RAL 7016 S110-04-C7016 S110-07-C7016 on request on request RAL 9001 S110-04-C9001 S110-07-C9001 on request on request RAL 9016 S110-04-C9016 on request on request on request sand-beige S110-04-C912 on request on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 1	matt brown	S110-04-C1416	on request	S110-08-C1416	on request
pergamon S110-04-C84 on request on request on request pine S110-04-C88 on request on request on request on request RAL 6009 S110-04-C6009 on request on request on request RAL 7016 S110-04-C7016 S110-07-C7016 on request on request RAL 9001 S110-04-C9001 S110-07-C9001 on request on request RAL 9016 S110-04-C9016 on request on request on request sand-beige S110-04-C12 on request on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request snow-white S110-04-C16 S110-07-C16 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 20 1	oak	S110-04-C57	on request	S110-08-C57	on request
pine S110-04-C88 on request on request on request RAL 6009 S110-04-C6009 on request on request RAL 7016 S110-04-C7016 S110-07-C7016 on request RAL 9001 S110-04-C9001 S110-07-C9001 on request RAL 9016 S110-04-C9016 on request on request sand-beige S110-04-C12 on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 20 1	ochre	S110-04-C31	on request	S110-08-C31	on request
RAL 6009 S110-04-C6009 on request on request on request RAL 7016 S110-04-C7016 S110-07-C7016 on request on request RAL 9001 S110-04-C9001 S110-07-C9001 on request on request RAL 9016 S110-04-C9016 on request on request on request sand-beige S110-04-C12 on request on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 1	pergamon	S110-04-C84	on request	on request	on request
RAL 7016 S110-04-C7016 S110-07-C7016 on request on request RAL 9001 S110-04-C9001 S110-07-C9001 on request on request RAL 9016 S110-04-C9016 on request on request sand-beige S110-04-C12 on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 20 1	pine	S110-04-C88	on request	on request	on request
RAL 9001 S110-04-C9001 S110-07-C9001 on request on request S110-04-C9016 on request on request on request sand-beige S110-04-C12 on request on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 20 1	RAL 6009	S110-04-C6009	on request	on request	on request
RAL 9016 S110-04-C9016 on request on request on request sand-beige S110-04-C12 on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 20 1	RAL 7016	S110-04-C7016	S110-07-C7016	on request	on request
sand-beige S110-04-C12 on request on request on request sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 1	RAL 9001	S110-04-C9001	S110-07-C9001	on request	on request
sanitary grey S110-04-C18 S110-07-C18 S110-08-C18 on request silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 1	RAL 9016	S110-04-C9016	on request	on request	on request
silk grey S110-04-C77 S110-07-C77 S110-08-C77 on request silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 1	sand-beige	S110-04-C12	on request	on request	on request
silver-grey S110-04-C94 S110-07-C94 on request on request snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 1	sanitary grey	S110-04-C18	S110-07-C18	S110-08-C18	on request
snow-white S110-04-C116 S110-07-C116 on request on request white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 20 1	silk grey				on request
white S110-04-C01 S110-07-C01 S110-08-C01 S110-23-C01 Packaging unit 20 20 20 1	silver-grey	S110-04-C94	S110-07-C94		on request
Packaging unit 20 20 20 1	snow-white	S110-04-C116	S110-07-C116		
		S110-04-C01	S110-07-C01	S110-08-C01	S110-23-C01
Pieces per pallet 1200 900 600 16	-	— ·	20	20	•
1200 000 100	Pieces per pallet	1200	900	600	16

Paints unfilled (gloss)

	310 ml cartridge	400 ml aluminium foil bag	580 ml aluminium foil bag	20 I hobbock
brown	S110-04-C05	S110-07-C05	S110-08-C05	on request
mahogany	S110-04-C29	on request	S110-08-C29	on request
RAL 6005	S110-04-C6005	on request	on request	on request
transparent	S110-04-C00	S110-07-C00	S110-08-C00	S110-23-C00
transparent-grey	S110-04-C284	on request	on request	on request
trijs	S110-04-C7686	S110-07-C7686	on request	on request
Packaging unit	20	20	20	1
Pieces per pallet	1200	900	600	16

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Hermann Otto GmbH · Krankenhausstr. 14 · 83413 Fridolfing, GERMANY

Tel.:+49 8684-908-0 · Fax: +49 8684-1260

e-mail: info@otto-chemie.de · Internet: www.otto-chemie.com





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.

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