OTTOSEAL®
S 115

Technical Datasheet

Characteristics:

- Neutral-curing 1-component silicone sealant
- Good compatibility with paints according to DIN 52452 (not paintable)
- Non-corrosive
- Excellent weathering, ageing and UV-resistance
- Contains fungicides

Fields of application:

- Sealing double-glazings (e. g. "Profilit")
- Sealing of joints on windows and doors made of wood, metal and plastic
- Expansion joints on prefabricated concrete and cellular concrete units
- Expansion joints in bathroom areas
- Sealing of joints on façades, metal constructions, terraces and balconies

Standards and tests:

- "Highly recommendable non-hazardous building product" according to building material list (TOXPROOF) of the TÜV Rheinland, Germany
- According to the requirements of DIN 18540-F
- According to the requirements of DIN 18545, part 2, resistance group D
- Conform to LEED® IEQ-credits 4.1 (Indoor Environmental Quality) adhesives and sealants
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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.
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 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.
When using the product for sealing glazing rebate or for weather sealing applications respectively the user must ensure suitability with regard to adhesion, compatibility and abrasion resistance by preliminary tests.
Remark on the application of the colour "alu": Please note that visible dividing lines could appear when the silicone surface is being smoothed and layers of silicone are pushed on top of each other (e. g. in corner areas). These dividing lines can not be removed by smoothing them afterwards. This effect occurs only with the colour "alu" and is caused by a special colour pigment, which creates the metallic effect. It is a specific characteristic of the product in colour "alu" and it does not represent a deficiency. In order to avoid this effect, make sure, that layers of silicone are not pushed on top of each other.
Avoid contact with materials which contain bitumen and which release solvents, e. g. butyl, EPDM, neoprene, insulating- and bituminous paint.

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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, coloured	approx. 8 - 12 minutes
Skin-forming time at 23 °C / 50 % RAH, transparent	approx. 6 - 10 minutes
Curing in 24 hours at 23 °C / 50 % RAH	approx. 2 mm
Processing temperature	+5 °C up to +35 °C
Density at 23 °C, coloured	approx. 1,2 g/cm³
Density at 23°C, transparent	approx. 1,0 g/cm³
Viscosity (23 °C)	pasty, stable
Shore-A-hardness (DIN 53 505) coloured	approx. 28
Shore-A-hardness (DIN 53 505) transparent	approx. 20
Permissable movement capability	25 %
Stress expansion modulus at 100 % (DIN 53 504, S3A)	approx. 0,4 N/mm²
Breaking expansion (DIN 53 504, S3A)	approx. 550 %
Tensile strength (DIN 53 504, S3A)	approx. 1,4 N/mm²
Temperature resistance	-40 °C up to +180 °C
Shelf life at 23 °C / 50 % RAH for cartridge / foil bag	12 months
Shelf life at 23 °C / 50 % RAH for pail / drum	12 months

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.

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.)	-
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
Stainless steel	+ / 1216
Iron	1216
Epoxid resin coating	+ / 1216
Glass	+
Wood, painted (solvent systems)	+
Wood, painted (aquaeous systems)	+
Wood, varnished (solvent systems)	+
Wood, varnished (aquaeous systems)	+
Wood, untreated	1215 / 1226 (1)
Ceramics, glazed	+ (2)
Ceramics, unglazed	+

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Clinker	1215
Artificial stone	-
Plastic profiles (unplasticized, e. g. Vinnolit)	1217 / 1227
Copper	+ (3)
Melamine formaldehyde resins (e. g. Resopal®)	1225 / T
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	+

+ = good adherence without primer
- = not suitable
T= Test/pilot test advised

1) Upon high exposure to water please contact our Technical Department.
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.
3) The reaction of neutral silicone with non-ferrous metalls, such as copper, brass, etc. is possible. Upon curing unblocked air admission is necessary.
4) The reaction of neutral silicone with non-ferrous metalls, such as copper, brass, etc. is possible. Upon curing unblocked air admission is necessary.

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.com).

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 % 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 diminuition 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
400 ml aluminium foil bag	20	900
580 ml aluminium foil bag	20	600

Colours:

C14	alu	C67	anthracite
C16	beige	C56	concrete grey
C05	brown	C02	grey
C08	jasmin	C01	white
C00	transparent	C43	manhattan
C94	silver-grey	C77	silk grey
C04	black	C18	sanitary grey

Safety precautions:

Please observe the material safety data sheet.

Disposal:

Information about disposal: Please refer to the material safety data sheet.

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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 concludingly. 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 responsable 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 paries' rights and - if necessary – resolving it. For the rest our general terms and conditions apply, in particular regarding a possible liability for deffects. You can find our general terms and conditions on our homepage: http://www.otto-chemie.com.

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