

OTTOSEAL®**S 105****Technical Datasheet****Characteristics:**

- 1-component acetate-curing silicone sealant
- Excellent weathering, ageing and UV-resistance
- Contains fungicides

Fields of application:

- Sealing of expansion joints in floor and wall areas
- Sealing double-glazings (e. g. "Profilit")
- Expansion joints in bathroom areas

Standards and tests:

- "Highly recommendable non-hazardous building product" according to building material list (TOXPROOF) of the TÜV Rheinland, Germany
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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.

While curing small amounts of acetic acid 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.

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

Technical properties:

Skin-forming time at 23 °C / 50 % RAH	approx. 8 - 12 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)	stable, pasty
Density at 23 °C	approx. 1,0 g/cm ³
Shore-A-hardness (DIN 53 505)	approx. 18 - 22
Permissible movement capability	25 %
Stress expansion modulus at 100 % (DIN 53 504, S3A)	approx. 0,35 - 0,40 N/mm ²
Breaking expansion (DIN 53 504, S3A)	approx. 400 - 600 %
Tensile strength (DIN 53 504, S3A)	approx. 1,2 - 1,5 N/mm ²
Temperature resistance	-40 °C up to +180 °C
Shelf life at 23 °C / 50 % RAH for cartridge / foil bag	18 months after production in unopened packagings

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 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).
 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	1216
Aluminium powder-coated	1101 / T
Aluminium powder-coated (contains teflon)	T
Concrete	1105
Concrete block	-
Lead	-
Chrome	1216
Stainless steel	1216
Iron	-
Epoxid resin coating	T
Fibre cement	1105
Glass	+
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	+ / 1216
Wood, varnished (solvent systems)	1216
Wood, varnished (aqueous systems)	1215 / 1226
Wood, untreated	1215 / 1226 (1)
Ceramic, glazed	+
Ceramics, unglazed	+
Plastic profiles (unplasticized, e. g. Vinnolit)	1217 / 1227
Copper	-
Melamine formaldehyde resins (e. g. Resopal®)	1216
Brass	-
Natural stone / marble	-
Polyester	+
Polypropylene	-
Cellular concrete	1105
Plaster	1105
PVC unplasticized	1217 / 1227
PVC - soft - foils	1217
Sandstone	-
Tinplate	-
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.

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 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
400 ml aluminium foil bag	20	900

Colours:			
C67	anthracite	C10	bahamabeige
C86	pale grey	C05	brown
C72	flannel grey	C71	joint-grey
C02	grey	C20	fair grey
C08	jasmin	C387	cloud grey
C01	white	C00	transparent
C43	manhattan	C94	silver-grey
C04	black	C18	sanitary grey
C84	pergamon	C656	light-grey

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. You can find our general terms and conditions on our homepage: <http://www.otto-chemie.com>.

