

OTTOSEAL®**S 100****Technical Datasheet****Characteristics:**

- 1-component acetate-curing silicone sealant
- Excellent weathering, ageing and UV-resistance
- Contains fungicide and bacteriostatic
- Unique processing characteristics
- Surface can be smoothed extremely well
- Very good adhesion on ceramic substrates

Fields of application:

- Expansion and connecting joints in bathroom areas
- Sealing of expansion joints in floor and wall areas

Standards and tests:

- "Especially recommendable economic building material" according to building material list (TOXPROOF) of the TÜV Rheinland, Germany
- Conform to LEED® IEQ-credits 4.1 (Indoor Environmental Quality) adhesives and sealants
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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.

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 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.

Remark on the application of OTTOSEAL® S 100 in 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.

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 minutes

Curing in 24 hours at 23 °C / 50 % RAH	2 - 3 mm
Processing temperature	+5 °C up to +35 °C
Viscosity (23 °C)	pasty, stable
Density at 23 °C	approx. 1,0 g/cm ³
Shore-A-hardness (DIN 53 505)	approx. 20
Permissible movement capability	25 %
Stress expansion modulus at 100 % (DIN 53 504, S3A)	approx. 0,3 N/mm ²
Breaking expansion (DIN 53 504, S3A)	approx. 900 %
Tensile strength (DIN 53 504, S3A)	approx. 1,8 N/mm ²
Temperature resistance	-40 °C up +180 °C
Shelf life at 23 °C / 50 % RAH for cartridge / foil bag 18 months after production in unopened packagings at RT	
These data are not suitable for the issuing 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.de).
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	-
Stainless steel	1216
Iron	-
Epoxid resin coating	T
Glass	+
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	1216
Wood, varnished (solvent systems)	1216
Wood, varnished (aqueous systems)	1215 / 1226
Wood, untreated	1215 / 1225 (1)
Ceramics, glazed	+ (2)
Ceramics, unglazed	+
Plastic profiles (unplasticized, e. g. Vinnolit)	1217 / 1226
Copper	-
Melamine formaldehyde resins (e. g. Resopal®)	1216
Brass	-
Natural stone / marble	-
Polyester	+
Polypropylene	-
Cellular concrete	1105
Plaster	1105
PVC unplasticized	1217 / 1225
PVC-soft-foils	1217 / 1226

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.

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.

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
300 ml cartridge	20	1200
400 ml aluminium foil bag	20	900
580 ml aluminium foil bag	20	600

Colours:

C62	agate grey	C91	aegean
C695	aegean blue	C1170	old grey
C51	old white	C14	alu
C22	anemone	C67	anthracite
C808	asphalt grey	C10	bahamabeige
C21	bali	C1105	basalt
C25	bermuda	C56	concrete grey
C86	pale grey	C05	brown
C09	caramel	C45	chinchilla
C75	cottojoint	C24	crocus
C753	crocus-blue	C19	curry
C81	thistle-grey	C35	fiery red
C72	flannel grey	C787	flash grey
C71	joint-grey	C69	joint white
C511	gold effect	C02	grey
C776	grey 15	C1010	grey-red
C70	grey-white	C1168	fair-graphite
C501	fair grey no. 21	C08	jasmin
C706	cement-grey no. 31	C92	whisperblue
C38	light-grey	C01	white
C1107	vanilla-beige	C23	magnolia
C60	umbra	C00	transparent
C1104	almond-brown	C1172	titan grey
C43	manhattan	C1167	tobacco brown
C26	sunset	C1169	melba
C1106	beach-beige	C27	stella
C40	mint	C79	stone grey
C42	sorrentoblue	C15	middle-brown
C510	silver effect	C11	moosgreen
C910	silver-grey Nr. 17	C961	morning-grey
C94	silver-grey	C77	silk grey
C04	black	C55	natural
C230	fog	C116	snow-white

C18	sanitary grey	C74	pastel beige
C103	sahara	C84	pergamon
C59	ruby	C82	red-beige
C07	deer-brown	C52	platinum grey
C2044	sand grey 18		

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/agb/AGB-Englisch_04-05.pdf