

1-component silicone sealant based on acetate

For indoor and outdoor application

S 100



Characteristics

- ▶ Excellent workability properties - Excellent smoothing and modelling capabilities
- ▶ Excellent weathering, ageing and UV-resistance
- ▶ Contains fungicide and bacteriostatic - Resistant to mould and bacteria
- ▶ Available in matte colours - Harmonises perfectly with matte surfaces

Fields of application

- ▶ Sealing of expansion and connection joints in floor and wall areas
- ▶ Sealing expansion and connection joints in bathroom areas
- ▶ Sealing double glazings / glass modules

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 fire behaviour in accordance with EN 13501: class E
- ▶ EMICODE® EC 1 Plus - very low emission
- ▶ Quality seal of the IVD (Industrial association for sealants, registered society), tested by the ift Rosenheim (Institute of window engineering, registered society)
- ▶ French VOC-emission class A+
- ▶ Declaration in "baubook" Austria
- ▶ According to regulation (EG) no. 1907/2006 (REACH)
- ▶ Suitable for applications according to IVD instruction sheet no. 3-1+3-2+14+31+35 (IVD = German industry association sealants)

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 [g/cm³]	~ 1,0
Shore-A-hardness according to ISO 868	~ 20
Permissible movement [%] according to ISO 9047	50
Permissible movement capability [%] according to EN 15651	25
Class according to ISO 11600 F	25 LM



Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm²] ~ 0,3

Tensile expansion according to ISO 37, type 3 [%] ~ 900

Tensile strength according to ISO 37, type 3 [N/mm²] ~ 1,8

Temperature resistance from/to [°C] - 40 / + 180

Extrusion rate according to ISO 8394-1 [g/min.] ~ 140 - 170

Shrinkage of volume according to ISO 10563 [%] ~ 5

Shelf life at 23 °C/50 % RH for cartridge/foil bag [months] 18 ¹

Shelf life at 23 °C/50 % RH for cartridge/foil bag matt [months] 15 ¹

1) from production

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.

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.

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	-
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	+
Epoxid resin mortar	1216 / T ¹
Glass	+ / 1226
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	1216
Wood, varnished (solvent systems)	1216
Wood, varnished (aqueous systems)	1215 / 1226
Wood, untreated	1215 / 1225 ²
Ceramic, glazed	+ ³
Ceramics, unglazed	+
Plastic profiles (unplasticized, e. g. Vinnolit)	1217 / 1226
Copper	-
Melamine resin panels	1216
Brass	-
Solid surface material	+ / 1101 / 1216
Natural stone / marble	-
Polyester	+
Polypropylene	-
Cellular concrete	1105
Plaster	1105

PVC unplasticized	1217 / 1225
PVC-soft-foils	1217 / 1226
Tinplate	-
Zinc, galvanised iron	-

- 1) Upon high exposure to water please test beforehand.
- 2) Upon high exposure to water please contact our Technical Department.
- 3) 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.

+ = 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.

While curing small amounts of acetic acid 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.

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.

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

Observe the following when smoothing matte colours with OTTO smoothing agents: The joints should only be tooled once with a smoothing tool, which was dipped in OTTO smoothing agent. The more often the surface is reworked with smoothing agent, the more the matte effect is lost and the joint becomes glossier.

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

	300 ml cartridge	400 ml aluminium foil bag	580 ml aluminium foil bag
● agate grey	S100-03-C62	on request	on request
● old grey	S100-03-C1170	on request	on request
● old white	S100-03-C51	on request	on request
● alu	S100-03-C14	on request	on request
● anemone	S100-03-C22	on request	on request
● anthracite	S100-03-C67	on request	on request
● asphalt grey	S100-03-C808	on request	on request
● bahamabeige	S100-03-C10	on request	on request











Glossy colors

 bali	S100-03-C21	on request	on request
 basalt	S100-03-C1105	on request	on request
 bermuda	S100-03-C25	on request	on request
 concrete grey	S100-03-C56	S100-07-C56	on request
 pale grey	S100-03-C86	on request	on request
 brown	S100-03-C05	on request	on request
 caramel	S100-03-C09	on request	on request
 chinchilla	S100-03-C45	on request	on request
 cottojoint	S100-03-C75	on request	on request
 crocus-blue	S100-03-C753	on request	on request
 curry	S100-03-C19	on request	on request
 thistle grey	S100-03-C81	on request	on request
 bowe	S100-03-C6777	on request	on request
 fiery red	S100-03-C35	on request	on request
 flannel grey	S100-03-C72	S100-07-C72	on request
 flash grey	S100-03-C787	on request	on request
 joint grey	S100-03-C71	S100-07-C71	on request
 joint white	S100-03-C69	on request	on request
 grey	S100-03-C02	S100-07-C02	on request
 grey 15	S100-03-C776	on request	on request
 grey red	S100-03-C1010	on request	on request
 grey white	S100-03-C70	on request	on request
 fair graphite	S100-03-C1168	on request	on request
 fair grey no. 21	S100-03-C501	on request	on request
 intense brown	S100-03-C7117	on request	on request
 jasmin	S100-03-C08	on request	on request
 chestnut	S100-03-C1082	on request	on request
 light grey	S100-03-C38	on request	on request
 almond brown	S100-03-C1104	on request	on request
 manhattan	S100-03-C43	S100-07-C43	on request
 melba	S100-03-C1169	on request	on request
 mint	S100-03-C40	on request	on request
 middle brown	S100-03-C15	on request	on request
 moosgreen	S100-03-C11	on request	on request
 morning grey	S100-03-C961	on request	on request
 natural	S100-03-C55	on request	on request
 fog	S100-03-C230	S100-07-C230	on request
 pergamon	S100-03-C84	on request	on request
 platinum grey	S100-03-C52	on request	on request
 deer brown	S100-03-C07	on request	on request
 red beige	S100-03-C82	on request	on request
 red brown	S100-03-C7116	on request	on request
 ruby	S100-03-C59	on request	on request
 sahara	S100-03-C103	on request	on request
 velvet black	S100-03-C5176	on request	on request
 sandbeige	S100-03-C6672	on request	on request
 sand grey 18	S100-03-C2044	on request	on request
 sanitary grey	S100-03-C18	S100-07-C18	S100-08-C18
 snow white	S100-03-C116	on request	on request
 black	S100-03-C04	on request	on request

Glossy colors

 silk	S100-03-C6778	on request	on request
 silk grey	S100-03-C77	on request	on request
 silver grey	S100-03-C94	S100-07-C94	S100-08-C94
 silver grey no. 17	S100-03-C910	on request	on request
 silver effect	S100-03-C510	on request	on request
 sorrentoblue	S100-03-C42	on request	on request
 stone grey	S100-03-C79	on request	on request
 beach beige	S100-03-C1106	on request	on request
 tobacco brown	S100-03-C1167	on request	on request
 titan grey	S100-03-C1172	on request	on request
 transparent	S100-03-C00	on request	on request
 umbra	S100-03-C60	on request	on request
 vanilla beige	S100-03-C1107	on request	on request
 volcano sand	S100-03-C6776	on request	on request
 white	S100-03-C01	S100-07-C01	on request
 cement grey 31	S100-03-C706	on request	on request
Pieces per packaging unit	20	20	20
Pieces per pallet	1200	900	600

Matte colors

	300 ml cartridge	400 ml aluminium foil bag	580 ml aluminium foil bag
 matt anthracite	S100-03-C8683	on request	on request
 matt bahamabeige	S100-03-C8685	on request	on request
 matt caramel	S100-03-C8686	on request	on request
 matt grey	S100-03-C8680	on request	on request
 matt manhattan	S100-03-C8679	on request	on request
 matt pergamum	S100-03-C8684	on request	on request
 matt sanitary grey	S100-03-C8681	on request	on request
 matt silver grey	S100-03-C8678	on request	on request
 matt white	S100-03-C8687	on request	on request
 matt cement grey 31	S100-03-C8682	on request	on request
Pieces per packaging unit	20	20	20
Pieces per pallet	1200	900	600

Due to typographical reasons the colours shown below may differ from the original colours of the products. For an exact colour display please request our original colour charts.

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.

Brand information

EMICODE® is a registered trademark of GEV e. V. (Düsseldorf, Germany)

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

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