

OTTOSEAL® S 105

The bathroom silicone



1-component silicone sealant based on acetate

For indoor and outdoor application

S 105



Characteristics

- ▶ Contains fungicides - Resistance to mould infestation
- ▶ Excellent weathering, ageing and UV-resistance

Fields of application

- ▶ Sealing expansion and connection joints in bathroom areas
- ▶ Sealing of expansion and connection joints in floor and wall 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 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]	~ 15
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 capability [%]	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 [%]	~ 700
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 1,4



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SEALING & BONDING

Temperature resistance from/to [°C]	- 40 / + 180
Extrusion rate according to ISO 8394-1 [g/min.]	~ 130 - 170
Shrinkage of volume according to ISO 10563 [%]	< 10
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	24 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	-
Chrome	1216
Stainless steel	1216
Iron	-
Epoxid resin coating	T
Fibre cement	1105
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 / 1226 ¹
Ceramic, glazed	+
Ceramics, unglazed	+
Plastic profiles (unplasticized, e. g. Vinnolit)	1217 / 1227
Copper	-
Melamine resin panels	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	-

1) Upon high exposure to water please contact our Technical Department.

+ = 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.

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






















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

	310 ml cartridge	400 ml aluminium foil bag	580 ml aluminium foil bag
 agate grey	S105-04-C62	on request	on request
 anthracite	S105-04-C67	S105-07-C67	on request
 bahamabeige	S105-04-C10	S105-07-C10	on request
 basalt	S105-04-C1105	on request	on request
 concrete grey	S105-04-C56	on request	on request
 pale grey	S105-04-C86	S105-07-C86	on request
 brown	S105-04-C05	on request	on request
 caramel	S105-04-C09	on request	on request
 flannel grey	S105-04-C72	S105-07-C72	on request
 flash grey	S105-04-C787	S105-07-C787	on request
 joint grey	S105-04-C71	S105-07-C71	on request
 grey	S105-04-C02	S105-07-C02	on request
 grey 15	S105-04-C776	on request	on request
 grey white	S105-04-C70	S105-07-C70	on request
 fair graphite	S105-04-C1168	on request	on request
 fair grey no. 21	S105-04-C501	on request	on request
 jasmin	S105-04-C08	on request	on request
 light grey	S105-04-C656	on request	on request
 manhattan	S105-04-C43	S105-07-C43	on request
 middle brown	S105-04-C15	on request	on request
 fog	S105-04-C230	S105-07-C230	S105-08-C230

Glossy colors

 pergamon	S105-04-C84	on request	on request
 platinum grey	S105-04-C52	on request	on request
 sand grey 18	S105-04-C2044	on request	on request
 sanitary grey	S105-04-C18	S105-07-C18	S105-08-C18
 snow white	S105-04-C116	on request	on request
 black	S105-04-C04	on request	on request
 silk grey	S105-04-C77	S105-07-C77	on request
 silver grey	S105-04-C94	S105-07-C94	on request
 silver grey no. 17	S105-04-C910	on request	on request
 stone grey	S105-04-C79	on request	on request
 beach beige	S105-04-C1106	on request	on request
 transparent	S105-04-C00	S105-07-C00	on request
 white	S105-04-C01	S105-07-C01	on request
 cloud grey	S105-04-C387	on request	on request
 cement grey 31	S105-04-C706	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 the intended processes and purposes. The application, use and processing of our products and the products manufactured on the basis of our technical application advice are beyond our control and are therefore the sole responsibility of the processor. If the application for which our products are used is subject to an official authorisation requirement, the user is responsible for obtaining these authorisations. We reserve the right to adapt the product to technical progress and new developments. For the rest, we refer to our General Terms and Conditions, in particular with regard to any liability for defects. You can find our GTC at www.otto-chemie.de.