OTTOSEAL® S 51

The premium plastic floor silicone



S 51

For indoor and outdoor

application

1-component silicone sealant based on aminoxime MEKO-free

Characteristics

- Flame retardant building material class B1 according to DIN 4102 and DIN EN ISO 4589 - Can be used under increased fire protection requirements
- Wide range of colours Colour adapted to common floor coverings (e.g. PVC, rubber and linoleum)
- > Excellent weathering, ageing and UV-resistance

Fields of application

- Sealing of floor and connection joints for plastic and design floor coverings made of rubber, linoleum, vinyl and PVC
- Sealing of similar and dissimilar working materials such as glass, stainless steel, aluminium and some plastics

Standards and tests

- Tested according to EN 15651 Part 1: F EXT-INT CC 25 LM
- Tested according to EN 15651 Part 4: PW EXT-INT CC 25 LM
- Tested according to DIN 4102-B1 hardly inflammable between solid mineral building materials (wood research at the Munich Technical University)
- Tested according to DIN EN ISO 4589-2:1999 Plastics -Definition of the fire-behaviour due to the oxygen index (Bodycote Warringtonfire)
- Tested for applications in the cleanroom sector by the Institute for Hygiene Gelsenkirchen, Germany
- French VOC-emission class A+
- Suitable for applications according to IVD instruction sheet no. 1+11+31+35 (IVD = German industry association sealants)

Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 6
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/cm ³]	~ 1,3
Shore-A-hardness according to ISO 868	~ 27
Permissible movement capability [%]	25
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm²]	e ~ 0,5
Tensile expansion according to ISO 37, type 3 [%]	~ 550
Tensile strength according to ISO 37, type 3 [N/mm ²]	~ 1,2

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Temperature resistance from/to [°C]

Shelf life at 23 °C/50 % RH for cartridge/foil bag [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.

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.

- 40 / + 150

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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.

Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	1101 / T
Concrete	1105 / 1215
Floor covering, rubber	+
Floor covering, PVC	+
Floor covering, vinyl	+
Epoxid resin coating	+
Epoxid resin mortar	+ / 1216
Stainless steel	1216
Glass	+
Ceramic, glazed	+
Ceramics, unglazed	+
Linoleum	+
Natural stone / marble	-
Plaster	1105 / 1215
PVC soft	+

+ = 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.

During curing small amounts of an amine-/oxime-compound 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.

For sealing of linoleum floorings please wet smoothing tool with only a little smoothing agent or rebate dryly. Remove excess smoothing agent on the flooring before drying in order to avoid staining.

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

Indoors without daylight or in the case of sporadic artificial lighting, alkoxy/oxime/amine silicone sealants may exhibit a yellowing over time, especially in transparent and light colours. If technically possible, it is recommended to use acetate silicones in these cases.

Application information

Amin cross-linking silicone sealants may cause yellowing of certain alkyd paints and various plastics or similar - therefore we recommend carrying out trials before use.

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 diminuition of durability or a change of material characteristics may arise.

Packaging

Glossy colors

-	310 ml cartridge
agate grey	S51-04-C62
anthracite	S51-04-C67
aqua	S51-04-C1042
bahamabeige	S51-04-C10
pale brown	S51-04-C1062
blue grey	S51-04-C1671
brown	S51-04-C05
brown red	S51-04-C1063
brilliant blue	S51-04-C958
crema	S51-04-C1657
Cream beige	S51-04-C1043
cream white	S51-04-C7148
thistle grey	S51-04-C81
oussie, pear tree	S51-04-C85
dark brown	S51-04-C49
fair oak	S51-04-C64
rustic oak	S51-04-C98
flash grey	S51-04-C787
pine	S51-04-C5128
cherry	S51-04-C17
Clay	S51-04-C1053
lime green	S51-04-C7699
melon	S51-04-C1044
orangina	S51-04-C1129
oxide red	S51-04-C1131
pastel blue	S51-04-C982
pastel yellow	S51-04-C1056
pastel green	S51-04-C1008
patina green	S51-04-C1112
pearl grey	S51-04-C1662
pure white	S51-04-C1646
saffron yellow	S51-04-C1049
sahara	S51-04-C103
sandstone grey	S51-04-C979
black	S51-04-C04
signal white	S51-04-C1651
stone grey	S51-04-C79
odve blue	S51-04-C964
	331-04-0304

Glossy colors

deep sea blue	S51-04-C983
titan grey	S51-04-C1172
lomato	S51-04-C1066
transparent	S51-04-C00
• violet	S51-04-C1116
white	S51-04-C01
Cloud grey	S51-04-C1670
Pieces per packaging unit	20
Pieces per pallet	1200

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.

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.