Technical datasheet

Novasil® S 807

The 1-component alkoxy silicone with high adhesive power

S 807

Characteristics

- Neutral curing 1-component silicone adhesive/sealant based on alkoxy
- Excellent weathering, ageing and UV-resistance
- Excellent self-adhesion on plastics
- High adhesive power
- Non-corrosive
- Low odour
- Excellent workability, particularly short stringiness and very good smoothness

Fields of application

- Bonding of door pillars, brackets and mouldings
- Elastic bonding and sealing in the industrial sector

Standards and tests

- According to UL FLAME CLASSIFICATION 94 HB

Technical properties

Colour	C04 black
Skin-forming time at 23 °C/50 % RH [minutes]	~ 15
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,3
Shore-A-hardness according to ISO 868	~ 40
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm²]	~ 1,0
Tensile expansion according to ISO 37, type 3 [%]	~ 450
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 2,5
Temperature resistance from/to [°C]	- 40 / + 180 [1]
Dielectric strength ED according to DIN EN 60243 [kV/mm]	~ ≥15
Volume resistance ρ according to DIN IEC 93 [Ω*cm]	~ 10 ^ 14
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	9 [2]

1) Refers to the colour black, all other colours resistant up to +150°C or, over the short term (up to 500 h), up to 180°C.

2) from production

These data are not suitable for the issue of specifications. Please contact OTTO-CHEMIE before issuing specifications.

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SEALING & BONDING

Pretreatment

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.
The adherent surfaces have to be clean, free from dust and grease as well as sustainable.
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 in order to achieve a resilient bonding. Please consult our technical department.
Certain plastics need a special surface treatment to achieve optimal adhesion on it. Please contact our technical department for this.

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.
Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant.
During curing small amounts of alcohol are released.
The curing time increases as the layer thickness of the silicone increases. Single-component silicones are not suitable for surface bonding unless the special design requirements are met. If the silicone is to be used in layer thicknesses of more than 15 mm, please contact the application technology department beforehand.

Application information

Sensitive to smoothing agents. It is recommended to remove the product in a dry state, as smoothing agents may cause the surface to be tacky.
Due to the many possible influences during and after application, the customer always has to carry out trials first.
In order to achieve optimal adhesion and good mechanical characteristics, the entrapment of air in the joint must be avoided.
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.
Please observe the recommended shelf life which is printed on the packaging.

Packaging

Packagings and other colours on request.

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.