Technical datasheet

Novasil® S 145

The 1-component silicone for textile coating with a high tensile expansion

S 145

Characteristics

- 1-component acetate-curing silicone sealant
- Tin-free
- Free-flowing
- Cures at room temperature
- Suitable for products in accordance with OEKO-TEX® STANDARD 100

Fields of application

- Coating of cloth and fabrics

Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 4
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2 - 3
Processing temperature from/to [°C]	+5 / +35
Viscosity (Brookfield, Sp.07, 5 UPM) [mPas]	~ 240000
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,0
Shore-A-hardness according to ISO 868	~ 15
Tensile expansion according to ISO 37, type 3 [%]	~ 700
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 1,7
Temperature resistance from/to [°C]	-40 / +180
Shelf life at 23 °C/50 % RH for pail/drum [months]	6 [1]
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	6 [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.
The demands on elastic sealings and bondings depend on the respective exterior influences. Extreme fluctuations in

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SEALING & BONDING

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.

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.
Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant.

Application information

Due to the many possible influences during and after application, the customer always has to carry out trials first.
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

Packagings and 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.

Brand information

OEKO-TEX® STANDARD 100 is a registered trademark of the Hohenstein Research Institute Prof. Dr Jürgen Mecheels GmbH & Co. KG, 74357 Bönnigheim, DE

Warranty information

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