TECHNICAL DATA SHEET

R14968 Dec. 2023

self leveling 1-component silicone

R14968 is a one-component, neutrally cross-linked alkoxy-based silicone recommended for potting and coating of electronic and electric components.

CHARACTERISTICS

- Neutral curing 1-component silicone
- Self-levelling
- Cures at room temperature
- Excellent adhesion on many substrates
- Contains UV tracor (for Qualiy inspection with blue light – 365nm)

USE

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 alcohol are released. Ensure good ventilation during application and curing.

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

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.

Contact with chemicals and when used in light protected applications can lead to a slight yellowing of the cured product. A possible change in colour does not necessarily influence the functionality.

All adherent surfaces must be clean and any contaminant such as release agents, preserving agents, grease, oil, dust, water, old adhesives or sealants and other substances which could affect adhesion, must be removed.

Cleaning of non-porous substrates: Apply SND or ABclean (airing time approx. 1 minute) using a clean, lint-free cotton cloth.

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.

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

TECHNICAL PROPERTIES

Skin-forming time (1)	~ 15min
Curing in 24 hours at (1)	~ 2mm
Processing temperature	+ 5°C to + 40°C
Viscosity Brookfield	~ 25000mPas
Density at 23 °C according to ISO 1183-1	~ 1,0 g/cm³
Shore-A-hardness according to ISO 868	~ 15
Stress expansion modulus at 100 % (2)	~ 0,3 N/mm²
Tensile expansion (2)	~ 250%
Tensile strength (2)	~ 0,7 N/mm²
Temperature resistance	- 40°C to + 200°C *
Dielectric strength ED (3)	17 kV/mm
Volume resistance ρ (4)	10^12 Ω*cm

(1)at 23°C and 50 % HR - (2)according to ISO 37, S3A - (3) according to DIN EN 60243-1 - (4) according to IEC 62631-3-1:2016

* After complete curing a temperature resistance up to approx. +200°C can be reached. Constant use under high temperatures and /or high humidity (RH > 60%) may change the properties of the material or lead to an interaction with neighbouring materials.

PACKAGING: REFERENCES

R14968

Cartouche 310ML	R14968 C310
Seau 20KG	R14968 20KG

Cleaner SND

Bulk 5 litres	SND 05L
Bulk 5 litres	ABclean 05L

R14968 is in compliance with REACH and RoHS regulations. A certificate may be sent on request (info@abchimie.com).

STORAGE AND DATE OF USE

Storage temperature : +15 to +25°C

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.

Date of use : 12 months after manufacturing.

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. ABchimie cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.