

1. GENERAL DESCRIPTION

High-temperature insulating & protective silicone-based lacquer for electronic components. Conformal coating corresponding to MIL-I-46058C.

2. FEATURES

KONTAKT CHEMIE Silisol 73 is a chemically cross linked silicone resin lacquer meeting the high requirements of the military specification MIL-I-46058C.

The resin lacquer has excellent adhesion properties in the tested temperature range from -40°C to +200°C, is transparent, soft and flexible. Contains a dye, fluorescent under UV light, enabling better visual control of the surface coating area.

3. APPLICATIONS

- Insulating and protective lacquer for high value electronic components like pcb's.

4. DIRECTIONS

For best adhesion of the KONTAKT CHEMIE Silisol 73, the substrate must be clean and dry. Hence it is recommended to thoroughly clean pcb's or components before applying KONTAKT CHEMIE Silisol 73. KONTAKT CHEMIE Silisol 73 can be applied by dipping, spraying or brush transfer. The resin can be diluted if needed. As diluent we do recommend "KONTAKT CHEMIE Silisol 73 diluent" – article no. 77627.

A diluting ration of 10 parts resin with 1 part diluent will result in a viscosity of ± 150 cSt.

KONTAKT CHEMIE Silisol 73 is a moisture curing resin. Therefore the relative humidity should at least be above 50%. At room temperature, the lacquer is dry to touch in 20-30 minutes. Full curing, depending on the thickness, is reached in 2-3 days. The lacquer should during this time plus for approximately another 2 days, not be stored below 10°C as otherwise cracks could occur.

Silisol 73

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A higher relative humidity and/or a high drying temperature to a max. of 80°C will speed up the cure. The physical properties as mentioned in section 5 have as an example been obtained on a film having a thickness of 25µm, and dried for 24 hrs at ambient temperature, followed by 30 min. at 80°C plus another 6 hours at ambient conditions.

Opened cans need to be protected from air humidity. If opened cans need to be stored for a prolong period of time, it is recommend to flush with dry nitrogen. The storage temperature should be below 30°C.

This product contains volatile solvents. A safety data sheet (MSDS) according EU directions 93/112 is available for CRC products.

5. TYPICAL PRODUCT DATA (without propellant)

Liquid Phase

Viscosity (cSt @ 25°C) > 800

Drying time at ambient conditions (RT/>50% RH)

TFT (min.) 20-30

Film properties (cured 24 hrs at ambient + 30 min at 80°C+> 6 hrs at ambient)

Film thickness (µm) 20-30

Appearance Transparent

Dielectric strength (kV/min) >50

Volume resistivity >10¹⁴

Adhesion on copper substrate (Gt) 0-1

Temperature resistance, adhesion to copper substrate

6 hrs at -40°C (Gt) 0-1

6 hrs at +200°C (Gt) 0-1



6. PACKAGING

bulk 1l

All statements in this publication are based on service experience and/or laboratory testing. Because of the wide variety of equipment and conditions and the unpredictable human factors involved, we recommend that our products be tested on-the-job prior to use. All information is given in good faith but without warranty neither expressed nor implied.

This Technical Data Sheet may already have been revised at this moment for reason such as legislation, availability of components and newly acquired experiences. The latest and only valid version of this Technical Data Sheet will be sent to you upon simple request or can be found on our website: www.crcind.com.

We recommend you to register on this website for this product so you will be able to receive any future updated version automatically.

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