SINOSIL™ 9527 Conformal Coating

INTRODUCTION

SINOSIL™ 9527 is a single-component condensation-curing silicone conformal coating designed for electronic protection applications. SINOSIL™ 9527 is primarily used for protection of printed circuit boards (PCBs) and other electronic components.

After curing, SINOSIL™ 9527 provides excellent resistance to moisture, mildew, salt spray, corrosion, dust, shock, corona discharge, high and low temperatures, and wear. SINOSIL™ 9527 also delivers reliable insulation performance and flexibility.

SINOSIL™ 9527 enables circuit boards to operate reliably in harsh environments and helps extend service life.

ADVANTAGES & FEATURES

- Room temperature curing, no oven required
- Curing can be accelerated at low temperature after solvent evaporation
- Medium viscosity, suitable for brushing, spraying, dipping
- UV indicator for inspection
- Cures to a tough, flexible and wear-resistant film
- Good adhesion to a wide range of circuit boards
- Good resistance to high and low temperatures with flame retardant performance

PHYSICAL PROPERTIES

Appearance	Transparent or translucent liquid
Color	Colorless or light yellow
Viscosity (mPa.s)	1000
Specific gravity (g/cm^3)	1.04
Solid content (%)	Min.72
Tack-Free Time, 25°C / 60% RH	7 min
Tack-Free Time, 60°C / 15% RH	2 min
Full Cure Time, 25°C / 60% RH	24 h
After curing	
Color for paint film	Colorless transparent
Adhesion (level)	0
Flexibility (mm)	1

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Hardness Shore A	80
Flammability	94 V-0
Relative elongation (%)	118
Dielectric strength (kV/mm)	17
Volume resistivity (Ohm/cm)	4 x 10^{14}
100kHz Dielectric Constant	2.7
100kHz Loss Factor	0.0028

Typical values are not intended for specification purposes.

APPLICATIONS

SINOSIL™ 9527 is suitable for protection of:

- Printed circuit boards (PCBs), including rigid and flexible circuit boards
- Electronic connectors and semiconductor crystal circuits
- Outdoor LED display modules
- Ceramic substrates and related electronic components

SINOSIL™ 9527 provides long-term moisture, corrosion and environmental protection, helping improve operational reliability and extend service life of electronic systems.

USAGE GUIDELINES

Surface Preparation

Ensure the substrate surface is clean, dry and free of dust, moisture and oil prior to coating.

Application Method

SINOSIL™ 9527 can be applied by spraying, brushing, flowing, tilting or automated selective coating processes.

Recommended coating thickness: 0.01–0.3 mm.

Curing

SINOSIL™ 9527 cures at room temperature and can be accelerated by low-temperature heating (e.g., 60°C for 10 minutes).

Adequate time should be allowed for solvent evaporation before heat curing to prevent bubble formation in the coating film.

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Curing rate depends on ambient temperature, relative humidity and coating thickness.

Post-Application

Allow sufficient time for leveling and defoaming before placing assemblies into service.

Handling Note

If slight turbidity appears during storage, gently rotate the container before use to ensure uniformity.

PACKING

SINOSIL™ 9527 is supplied in 20 kg steel pails. All containers are tightly sealed to prevent moisture ingress and ensure product stability during storage and transportation.

STORAGE

This product is sealed and recommended to be stored in a cool and dry place at a temperature of 5~25°C.In the unopened original container, it has a shelf life of one year in a dry and cool place.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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