Fine-L-Kote HT High-Temp Silicone Conformal Coating

Product# 2106

Product Description

High Temperature Silicone Coating is designed to prevent thermal breakdown at high temperatures. Silicone Conformal Coating is the most universal coating, offering protection for a wide variety of environments.

Features / Benefits

- **Designed for high temperature environments**
- **Fast-drying silicone 1-step process**
- **Thermal resistance - to 662°F (350°C)**
- **Dielectric strength - 560 volts/mil**
- **IPC-CC-830B & MIL-I-46058C Certified**
- **Moisture resistant**
- **Vibration resistant - flexible**
- **UV indicator for black light inspection**

Usage Instructions

For industrial use only. Read MSDS carefully prior to use. Before applying Fine-L-Kote™ conformal coatings, clean circuit boards to remove contamination and allow to dry. Cleaning may be performed with Techspray G3, E-LINETM and Precision-V defluxers.

Spray Application: Apply top to bottom, allowing coating to flow evenly around components. Rotate PCB 90º and repeat application. Rotate and apply coating two additional times, then allow board to cure. If additional thickness is desired, apply additional coatings. When using liquid spray with automatic dispensing equipment, adjustments may be required in application rate and viscosity.

Dip Application: Using automatic equipment or hand immersion technique, slowly immerse PCB into the coating and remove slowly. Use an average rate of approximately 1 foot per minute. After allowing the board to cure, process may be repeated to achieve desired thickness.

Brush Application: Evenly apply coating to areas desired at thickness required. Allow time for curing before reapplying to achieve a thick coating. Use WonderMASK to protect components during conformal coating process. After application, cured Fine-L-Kote™ may be removed using Techspray Conformal Coating Removal Pen (2510-N or 2510-P).

Typical Product Data and Physical Properties

Physical State:	Liquid
Odor:	Aromatic odor
Color:	Colorless
Percent volatile:	80
Vapor Density:	>1 (Air=1)
Boiling Point:	230ºF (110ºC)
Flashpoint and method:	40ºF (TAG CC)
Solubility in water	Insoluble
Density:	0.92
VOC:	724 g/L
Shelf life:	1 year

Chemical Components

Chemical Name	CAS#
Xylenes (o-,m-,p-isomers)	1330-20-7
Benzene- methyl, (Toluene)	108-88-3
Polysiloxane mixture	811-97-2
1,1,1,2-Tetrafluoroethane (aerosol only)	

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Performance & Application Data

Cure type	Thermal/air
Tack-free time (min)	45
Accelerated cure time/temp	1 Step: 15 Min. @ 49°C
Ambient cure time	24 hr.
Viscosity (bulk)	10-30 cps
Operating temperature range	-40° to - 350°C
Dielectric strength	560 V/Mil
Insulation resistance (ohms)	1.33×10^{16}
Coverage (1 mil dry film)	1 aerosol can = $20ft^2$ ($1.9M^2$) 1 gal. liquid = $880ft^2$ ($81.8M^2$)

Packaging and Availability

2106-12S	12oz. Liquid
2106-G	1 Gallon Liquid

Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

Resources

Techspray® products are supported by a global sales, technical and customer services resources.

For additional technical information on this product or other Techspray® products in the United States, call the technical sales department at 800-858-4043, email tsales@techspray.com or visit our web site at: www.techspray.com.

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