TECHSPRAY

Technical Data Sheet

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Fine-L-Kote LED Silicone Coating Product# 2120

Product Description

Fine-L-Kote[™] LED is specifically designed and formulated for light emitting diode applications, where a completely transparent silicone coating is required to provide a tough, protective coating. Fine-L-Kote[™] LED provides maximum flexibility for extreme temperatures on the flex and rigid circuitry found on LED displays. Cured coatings are hydrolytically stable and retain their physical electrical properties after high temperature and humidity exposure. Fine-L-Kote[™] LED will not stress delicate circuit components, and meets the performance parameters (without UV traceability) of MIL-I-46058C, Type SR.

Features / Benefits

- Silicone coating transparent to visible wavelengths, will not block or change light intensity or wavelength
- Extends component life by protecting against adverse environments
- Good insulation properties help with circuit insulation characteristics, excellent flexibility minimizes thermal stress
- Resists moisture, salt, fungus, corrosive vapors, and severe environments
- Engineered to withstand heat generated by electronic circuitry as well as climatic temperature extremes
- Compliant to IPC-CC-830B (w/o UV)
- Room temperature cure
- RoHS compliant

Specifications

- IPC-CC-830B (w/o UV)
- MIL-I-46058C (w/o UV)
- UL94 flammability rating V-0
- MIL-STD 810G salt spray test
- IESNA LM-79-2008
- ANSI NEMA ANSLG C78.377:2015

Applications

- LED Displays and controls
- Data Communications
- Instrumentation
- Automotive Manufacturing
- Marine Manufacturing
- Process Control

Compatibility

Fine-L-Kote[™] LED is generally compatible with most materials found on printed circuit boards. As with any chemical product, product/component compatibility must be determined on a noncritical area prior to use.



Typical Product Data and Physical Properties

Physical state:	Liquid
Color:	Yellowish
Flash point:	Closed cup: 53.6ºF (12ºC)
Relative density:	0.93
VOC:	Carb - 56. 3%
	SCAQMD - 570g/L
	Federal - 56.3%
RoHS Compliant:	Yes
Shelf life:	N/A

Performance and Application Data

Coverage (1 mil dry film)	1 gal liquid = 880 ft ² (81.8 m ²)	
Tack Free Time (min)	60	
Accelerated Cure Time/Temp 2 Step		
	30 min @ 32ºC	
	45 Min @ 93ºC	
Ambient Cure Time	72 Hrs	
Solids Content (% by wt)	47%	
Viscosity (cps)	60-70	
UV Indicator	no	
Operating Temp Range	-65 to 200C	
Dielectric Strength	1 kV/Mil	

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Optical Clarity Validation



3rd party testing by Intertek, standards IESNA LM-79-2008 and ANSI NEMA ANSLG C78.377:2015.

Usage Instructions

For industrial use only. Read MSDS carefully prior to use. Before applying Fine-L-KoteTM 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 90° 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-KoteTM may be removed using Techspray Conformal Coating Removal Pen (2510-N or 2510-P).

Packaging and Availability

2120-P	1 Pint Liquid
2120-G	1 Gallon Liquid
2120-5G	5 Gallon Liquid

Environmental Impact Data

CFC	0.0%
HCFC	0.0%
Cl. Solv	0.0%
VOC	56.3%
HFC	0.0%
ODP	0.00

CFC, HCFC, CL. SOLV., VOC, and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the substances that may contribute to the depletion of stratospheric ozone, based upon the weight of each substance in the product's formulation.

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 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.

Important Notice to Purchaser/User: The information in this publication is based on tests that we believe are reliable. The results may vary due to differences in tests type and conditions. We recommend that each user evaluate the product to determine its suitability for the intended application. Conditions of use are outside our control and vary widely. Techspray's only obligation and your only solution is replacement of product that is shown to be defective when you receive it. In no case will Techspray[®] be liable for any special, incidental, or consequential damages based on breach of warranty, negligence or any other theory.



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