



# Fine-L-Kote™ SR

## Silicone Conformal Coating

### 2102

#### Introduction

A type SR silicone resin conformal coating that has excellent moisture and fungus resistance properties and is UL recognized (UL File Number E95150). Material flexibility allows for vibration, movement, and rapid changes in temperature. Fine-L-Kote™ SR is a durable coating that offers chemical resistance and is recommended for harsh environments. Contains Opti/Scan™ to allow for black light inspection. Coated boards can be reworked by applying soldering iron directly to coating. Coated boards can be stripped using Trace Technologies™ Conformal Coating Remover (2510-N, 2510-P).

#### Features / Benefits

- Moisture, Thermal and Chemical Resistant
- UL Recognized
- Recommended for Harsh Environments
- Flexible
- Contains Opti/Scan™

#### Chemical Components

Toluene.....(108-88-3)	4-5% - Aerosol 7-8% - Bulk 28-30% - HV
Methyltrimethylsilane.....(1185-55-3)	<1%
Dimethylmethylphenylmethoxysiloxane..... (68952-93-2)	12-15% 40-50% - HV
Hexane isomers	
Dipropylene Glycol Methyl Ether Acetate.....(88917-22-0)	<4% - Aerosol 3-6% - Bulk, HV
Acetone.....(67-64-1)	20-25% - Aerosol 45-50% - Bulk
Propane..... (74-98-6)	10-30% - Aerosol
Silicone Polymer	10-12%
2-Butanone..... (78-93-3)	7-10% - HV

Cure Type	Thermal		
Meets/Exceeds IPC-CC-830 MIL-I-46058C	SR Silicone		
Thermal Shock	5		
Dielectric Constant (@ 10 <sup>6</sup> Hz)	2.33		
Dielectric Strength (Volts/Mill)	1100 Dry	976 Wet	
Volume Resistivity	1x10 <sup>14</sup> Dry	9x10 <sup>14</sup> Wet	
Moisture Resistance	5		
Resistant to Fungus	Yes		
Ease of Repair	5		
Flexibility	5		
Chemical Resistance	4		
Dry Time to Touch	1 Hour		
Cure Time	72 Hours		
Accelerated Cure Time	30 min. @ 90°F	45 min. @ 200°F	Two Step Process
Removal (2510-P or 2510-N)	1-5 min.		
Burn Through	Yes		

Ratings: 5 (Excellent), 4 (Very Good), 3 (Good), 2 (Fair), 1 (Poor)

## Typical Properties as Cured Physical Properties for 2102

Operating temperature range °C	-65 to 200
Specific Gravity @ 25°C	1.11
Tensile Strength @ 25°C, psi	600
Elongation @ 25°C percent	60
Durometer Hardness, Shore D, points	25
Volume Coefficient of Thermal Expansion um/m/c	253.6
Thermal Conductivity @ 100°C Watts/mK	0.17
Water Absorption, 100 hours @ 25°C Percent	0.05
Viscosity (cps) Bulk / HV	4-10 / 60-90

## 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.

## Packaging and Availability

Fine-L-Kote™ SR may be ordered in the following container sizes:

2102-12S	12 Ounce Aerosol
2102-P	1 Pint in Glass
2102-G	1 Gallon in Metal
2102-GHV	1 Gallon in Metal
2102-5G	5 Gallons in Metal

## 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](mailto:tsales@techspray.com) or visit our web site at: [www.techspray.com](http://www.techspray.com).

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### Aerosol MSDS

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### HV (High Viscosity) MSDS

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