



Fine-L-Kote™ AR

Acrylic Conformal Coating 2103

Introduction

Economical, acrylic conformal coating that provides insulation against high voltage arcing and corona shorts while resisting moisture and fungus. This product offers limited resistance to common alcohols, ketones, and esters. Durable coating provides a hard surface that is resistant to abrasion and staining. Fine-L-Kote™ AR is formulated with a black light indicator, Opti/Scan™, to allow for black light inspection. Coated boards can be stripped using Trace Technologies™ Conformal Coating Remover (2510-N, 2510-P).

Features / Benefits

- Static Resistant
- Easy Repair
- Economical Coating
- High Dielectric Strength
- Contains Opti/Scan™

Chemical Components

Acetone.....(67-64-1)	12-18%-Aerosol 25-30%-Bulk
Acrylic Polymer Blend	5-8%-Aerosol 20-23%-Bulk
Aerosol-Tetrafluoroethane.....(811-97-2)	48-53%
n-Propyl Acetate.....(109-60-4)	25-30%-Aerosol 50-55%-Bulk

Cure Type	Thermal
Meets/Exceeds IPC-CC-830 MIL-I-46058C	AR Acrylic
Thermal Shock	2
Dielectric Constant (@ 10 ⁶ Hz)	3.1
Dielectric Strength (Volts/Mill)	2086
Volume Resistivity	4x10 ¹³ Dry
Moisture Resistance	2
Resistant to Fungus	Yes
Ease of Repair	2
Flexibility	2
Chemical Resistance	1
Dry Time to Touch	15 min.
Cure Time	24 Hours
Accelerated Cure Time	20 min. @ 120°F 30 min. @ 180°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 Physical Properties for 2103

% Non Volatile	20
Gardner Color	1 Max
Acid Value (g KOH/g Acid)	4.3 – 4.9
Tg 2 (C)	43.5 – 46.5
MFI (g/10 min.)	19 @ 190°C
Molecular Weight	90,000
Viscosity (cps) Bulk	34-54

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™ AR may be ordered in the following container sizes:

2103-12S	12 Ounce Aerosol
2103-P	1 Pint in Glass
2103-G	1 Gallon in Metal
2103-5G	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 or visit our web site at: www.techspray.com.

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Countries Outside US
 Call to locate a distributor
 in your country.

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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Aerosol MSDS

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FINE-L-KOTE™ COATING SELECTION CHART

Fine-L-Kote™ Part Number	2102	2103	2104	2106
Cure Type	Thermal	Thermal	Thermal	Thermal
Meets / Exceeds IPC-CC-830 MIL-I-46058C	SR Silicone	AR Acrylic	UR Urethane	SR Silicone
Thermal Shock	5	2	3	5
Dielectric Constant (@ 10 ⁶ Hz)	2.66	3.1	3.80	2.5
Dielectric Strength (Volts / Mil)	1100 Dry 976 Wet	2086	380	560
Volume Resistivity	1x10 ¹⁴ Dry 9x10 ¹⁴ Wet	4x10 ¹³ Dry	2x10 ¹³	5x10 ¹³
Moisture Resistance	5	2	4	5
Resistant to Fungus	Yes	Yes	Yes	Yes
Ease of Repair	3	5	2	3
Flexibility	5	2	3	5
Chemical Resistance	4	1	4	2
Dry Time To Touch	1 Hour	15 Min.	15 Min.	45 Min.
Cure Time	72 Hours	24 Hours	24 Hours	24 Hours
Accelerated Cure Time	30 min. @ 90°F 45 min. @ 200°F Two Step Process	20 min. @ 120°F 30 min. @ 180°F Two Step Process	20 min. @ 120°F 30 min. @ 180°F Two Step Process	15 min. @ 120°F One Step Process
*Removal (2510)	1-5 min.	1-5 min.	1-5 min.	1-5 min.
Burn Through	Yes	Yes	Yes	Yes

Ratings: 5 - Excellent, 4 - Very Good, 3 - Good, 2 - Fair, 1 - Poor
All coatings may be thinned by using Fine-L-Kote™ UR Thinner (2105)

* Available: Conformal Coating Remover
Product #'s: 2510-P and 2510-N

MOISTURE RESISTANT



2102
2106

THERMAL RESISTANT



2102
2106

CHEMICAL RESISTANT



2102
2104

STATIC RESISTANT



2103