

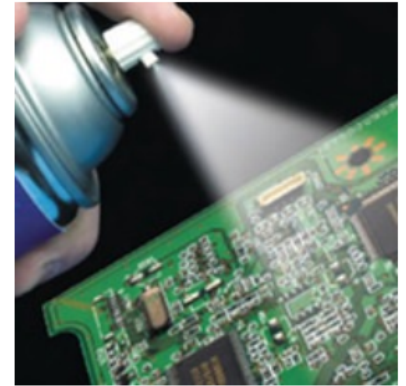


# SR Silicone Conformal Coating

2102

Techspray offers a variety of coating formulas to match field and engineering requirements. Specifications generally depend on the type of protection needed: e.g. thermal, moisture, and static resistance.

Coatings contain Opti/Scan to allow quality control inspection of coverage and evenness of the coating on a PCB. A coated board can be passed under a standard, low-cost UV (short-wave black) light, and the coated areas glow. The brighter the glow, the thicker the coating.



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## Ideal for moisture, thermal and vibration protection

Silicone Conformal Coating is the most universal coating, offering protection for a wide variety of environments.

- UL recognized (UL746E) - file #E95150
- Max operating temperature Up to 392°F (200°C)
- Non-ozone depleting
- Dielectric strength & 1100 volts/mil
- Moisture resistant
- Chemically resistant
- Vibration resistant & flexible
- IPC-CC-830B & MIL-I-46058C qualified

Specifications:

- MIL-I-46058C Type SR
- IPC-CC-830B
- UL94 V-0 rated, UL# E95150.

## Product Packaging

**2102-12S**  
 Fine-L-Kote SR Conformal Coating  
 12 oz  
 12 units/case



**2102-P**  
 Fine-L-Kote SR Conformal Coating  
 1 pt  
 2 units/case



**2102-G**  
 Fine-L-Kote SR Conformal Coating  
 1 gal  
 1 units/case



**2102-5G**  
 Fine-L-Kote SR Conformal Coating  
 5 gal  
 1 units/case



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## Instructions

Surface to be sprayed should be thoroughly cleaned with solvent such as Flux Remover G3 (1631). Surface must be completely dry before application of coating. As you spray or brush coating, allow material to flow around components. Coating will be tack free in approximately 60 minutes; however, full cure requires 72 hours depending on humidity and thickness of application. Coated boards can be reworked by applying soldering iron directly to coating, or complete removal can be achieved in 1 to 3 hours by using Conformal Coating Remover (2510). Removal time depends on temperature, thickness of coating, and application.

## Technical Information

### Chemical & Physical Properties

|               |                         |
|---------------|-------------------------|
| Appearance    | Clear, colorless liquid |
| Odor          | Aromatic odor           |
| Flash Point   | -12.2°C (10°F)          |
| VOC (EPA)     | 481 g/l                 |
| Boiling Point | 79°C (134°F)            |

### Chemical Composition

| CHEMICAL NAME                                  | CAS #      |
|------------------------------------------------|------------|
| Acetone                                        | 67-64-1    |
| Hexane                                         | 110-54-3   |
| 1-(2-Methoxy-Methyl-Ethoxy)-2-Propanol Acetate | 88917-22-0 |
| Dimethyl methylphenylmethoxy siloxane          | 68952-93-2 |
| Methyltrimethoxysilane                         | 1185-55-3  |
| Benzene- methyl, (Toluene)                     | 108-88-3   |
| Propane (aerosol only)                         | 74-98-6    |



### Performance & Application Data

|                              |                                      |
|------------------------------|--------------------------------------|
| Cure type                    | Thermal / air                        |
| Tack-free time (min)         | 60                                   |
| Accelerated cure time/temp   | 2 Step: 30 Min.@ 32°C, 45 Min.@ 93°C |
| Ambient cure time            | 72 hrs                               |
| Viscosity (bulk)             | 4-10 cps                             |
| Operating temperature range  | -65° - 200° C                        |
| Dielectric strength          | 1.1 kV/Mil                           |
| Insulation resistance (ohms) | 6.87 x 10 <sup>15</sup>              |

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

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#### Countries Outside US

Call to locate a distributor in your country.

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