



Urethane Conformal Coating

MS-470C (14 oz Aerosol) MS-472C (Bulk Liquid)

Urethane Conformal Coating offers superior toughness and abrasion resistance and excellent protection from humidity and organic solvents.

MS-470C will cover 8.6 square feet at a 2-mil thickness per 14-oz. aerosol can. MS-472C, the bulk liquid version of the product, is available in quarts and gallons for dip, brush, or spray applications and will cover 120 square feet per gallon at a 2-mil thickness.

Printed circuit boards covered with urethane coating are repairable. Simply heat the coating with a soldering iron to remove the components.

Air dry for 30 minutes. Repeat up to 2-3 coats. The recommended cure schedule is 2 hours at 140°F/60°C and a relative humidity of 30% to 50%. If the humidity level is less than 30%, place an open container of distilled water in the oven and allow to equilibrate. The alternate cure, at room temperature and a relative humidity of 30% to 50%, will be tack free in one to four hours, semi-hard in one day, and fully cured in seven days.

Urethane conformal coating can be removed with MS-114C or MS-115 Conformal Coating Strippers.

Cured Electrical Properties

Dielectric Strength (volts/mil)	1200
Dielectric Constant @ 100 kHz (77°F/25°C)	4.2
Dissipation Factor @ 100 kHz (77°F/25°C)	0.010
Volume Resistivity, ohm - cm	2x10 ¹³

Cured Physical Properties

Operating Temperature: -67°F/-55°C to 230°F/110°C

Appearance: No blistering, wrinkling, cracking, or peeling of film, or substrate after thermal shock, or after moisture resistance testing.

Flexibility: No cracking or crazing of film on bending over a 1/8" diameter mandrel.

Fungus Resistance: Non-nutrient per ASTM G21

Fluorescent when viewed with ultraviolet light.

Miller-Stephenson offers urethane, acrylic and silicone conformal coatings available in aerosol and bulk liquid.

Safety Data Sheet (SDS) is available upon request.

For technical support:
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800-323-4621 (8-4 ET) in Canada.
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The recommendations made here with and the information set forth with respect to the performance or use of our products are believed, but not warranted to be accurate. The products discussed are sold without warranty, as to fitness or performance, express or implied and upon condition that purchasers shall make their own test to determine suitability of such products for their particular purposes. Likewise, statements concerning the possible uses of our products are not intended as recommendations to use our products in the infringement of any patent.

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