miller-stephenson

Product Information

www.miller-stephenson.com

MS-470C / 472H
Urethane Conformal Coating

Description

Urethane Conformal Coating offers superior toughness and abrasion resistance and excellent protection from humidity and organic solvents. Printed circuit boards covered with urethane coating are repairable. Simply heat the coating with a soldering iron to remove the components.

Allow 48 hours minimum to reach room temperature before using cans stored or received during cold weather.

Application

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.

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.

NOTE: DO NOT SHAKE CAN AGGRESSIVE; INVERT CAN AND PURGE AFTER EVER USE. Valve and actuator clogging will occur if this is not performed.

Cured Electrical Properties

Dielectric Strength, volts/mil	1200
Dielectric Constant @ 10^5 Hz	4.2
Dissipation Factor @ 10^5 Hz	0.01
Volume Resistivity (ohm)	2 x 10^13

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.

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Miller-Stephenson offers urethane, acrylic and silicone conformal coatings available in aerosol and bulk liquid.
Safety Data Sheets (SDS) are available upon request.

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