



Product Information

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MS-460H / 462H Silicone Conformal Coating

Description

A transparent, soft, flexible coating which offers excellent moisture resistance, good dielectric properties, and excellent light transmission capabilities for solar applications. It has good weatherability and resistance to U.V. light and dirt pick-up. It is also solderable for easy repair. Contains Dow Corning 1-2577 silicone resin. This silicone resin meets the requirements of MIL-I-46058C, Type SR, IPC-CC-830B and UL 746E approved. It is also compatible with WEEE and RoHS.

Application

Silicone Conformal Coating dries in approximately one hour and completely cures within 72 hours after coating. A good cure for a working environment requires 24 hours at 77°F/25°C and 50% relative humidity. Higher humidity and temperature will result in a faster cure. The coating can be cured in 30 minutes at 168°F/75°C or in 15 minutes at 302°F/150°C in an air circulating oven.

MS-460H (Aerosol) will cover approximately 3.8 sq. ft. at a 2 mil thickness per 12 oz. aerosol can. MS-462H (bulk liquid) is available in quart and gallon size containers for dip, brush and/or spray applications. It will cover approximately 62 sq. ft./gallon when applied at a 2 mil thickness.

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

Silicone Conformal Coating can be removed with MS-114C or MS-115 Conformal Coating Strippers.

Cured Electrical Properties

Dielectric Strength (volts/mil)	400
Dielectric Constant (10Hz)	2.74
Dissipation Factor 10 ⁵ Hz	<0.0002
Volume Resistivity (ohm/cm)	5x10 ¹³

Cured Physical Properties

Operating Temperature	94 V-00
UL Flammability Classification	240
Tensile Strength (psi) @ 77°F/25°C	74
Elongation (%) @ 77°F/25°C	80
Durometer Hardness, Shore A, Points	2.1 x 10 ⁻⁴
Coefficient of Thermal Expansion	2.0 x 10 ⁻⁴
Water Absorption	
100 hrs. @ 77°F/25°C	0.11%
100 hrs. @ 221°F/105°C & 98%RH	0.33%

Fluorescent when viewed with ultraviolet light.
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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For technical information call 800.992.2424 or 203.743.4447
For product sales: CT 800.442.3424, CA 800.771.8161, IL 800.447.4866, Canada 800.307.2199
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