



Product Information

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MS-475C / 477C Acrylic Conformal Coating

Description

Acrylic Conformal Coating offers superior toughness and abrasion resistance, excellent dielectric properties, fungal resistance, and moisture and environmental protection. Acrylic resin meets the requirements of MIL-I-46058C Type AR. It is solderable for ease of repair.

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

Application

MS-475C will cover 6.4 sq. ft. at a 2 mil. thickness per 14 oz. aerosol can. MS-477C, the bulk liquid version of this product, is available in quarts and gallons for dip, brush, or spray application, and will cover 91 sq. ft. per gallon at a 2 mil. thickness.

Drying and curing of acrylic coating depends upon evaporation of the solvent. Air dry coated boards for 30 minutes at 77°F/25°C to remove solvents before curing in oven or applying additional coats.

The recommended cure time is 45 minutes at 167°F/75°C. The alternate cure is 24 hours at 77°F/25°C. Acrylic coating will be tack free in one hour, semi-hard in four hours, and fully cured in 24 hours. Deaeration is not recommended.

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

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

Cured Electrical Properties

Dielectric Strength (volts/mil)	2000
Dielectric Constant (10Hz)	2.29
Dissipation Factor 10 ⁵ Hz	0.012
Volume Resistivity (ohm/cm)	1.04x10 ¹⁶

Cured Physical Properties (per MIL-1-46058C)

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

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

Flexibility: No cracking or crazing of film in 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 Sheets (SDS) are available upon request.

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