

Technical data sheet



Product: 419E - Aerosol

Manufacturer: MG CHEMICALS

Product group: ELEKTRO

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419E AEROSOL

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419E Aerosol



Premium Acrylic Conformal Coating

419E is a 1-part, UL 746E certified, acrylic conformal coating. It cures to a durable, flexible and smooth finish. It is easy to apply and can be handled in 15 minutes. It may be removed with appropriate strippers, or soldered through for repair or rework.

419E creates a robust moisture barrier that protects printed circuit boards in humid environments. It provides strong protection against moisture, corrosion, fungus, dirt, dust, thermal shock, short circuits, high-voltage arcing, and static discharge.

Features & Benefits

Certified UL 746E (File# E203094)

Certified IPC-CC-830C

Xylene and toluene free

Fluoresces under UV-A light



Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 15 minutes, cure the coating in an oven at one of these time/temperature options:

Temperature	65 °C	80 °C	100 °C
Time	30 min	15 min	5 min

Available Packaging

Part #	Packaging	Net Vol.	Net Wt.
419E-340G	Aerosol	420 mL	340 g

Storage and Handling

Store between -5 and 27 °C in a dry area, away from sunlight (see SDS).

419E Aerosol



Liquid Properties

Binder System	Acrylic	—
Dry Time to Handle	15 min (1 coat) 25 min (2 coats)	—
Minimum Recoat Time	3 min	—
Recommended Film Thickness	25–75 µm	—
Density	0.9 g/mL	ASTM D1475
Viscosity @ 25 °C	20 cP	Brookfield Engineering labs Inc. IPCTM-65- Method 2.4.24.4
Percent Solids	7.8%	—
Theoretical Coverage @ Recommended Thickness	3 700 cm ²	Calculated
Calculated VOC	828 g/L	—
Shelf Life	5 y	—

Cured Properties

UL	94 V-0	—
IPC-CC-830	C revision	—
Color	Clear	—
Resistivity	3.5 x 10 ¹³ Ω·cm	ASTM D257
Breakdown Voltage	>1 500 V	ASTM D149
Dielectric Strength @	1 100 V/mil	
Insulation Resistance	1 x 10 ¹² Ω·cm	IPC-TM-650 2.5.7.1
Moisture Insulation Resistance	1 x 10 ¹² Ω·cm	IPC-TM-650 2.6.3.4
Glass Transition Temperature (T _g)	38 °C	ASTM E1545
Coefficient of Thermal Expansion (CTE)	160 ppm/°C (Prior T _g)	ASTM E831
Service Temperature Range	-65–130 °C	—

419E Aerosol



Application Instructions

Read the product SDS before using this product (downloadable at www.mgchemicals.com).

Recommended Preparation

Clean the substrate with MG #824 99.9% Isopropyl Alcohol, so the surface is free of oils, dust, and other residues.

Spray

1. Shake the can vigorously.
2. Spray a test pattern to ensure good flow quality.
3. Tilt the board at 45° and spray a thin, even coat from a distance of 20–25 cm (8–10 in). Use spray-and-release strokes with an even motion to avoid paint buildup in one spot. Start and end each stroke off the surface.
4. Wait 3 min before applying another coat, to avoid trapping solvent.
5. Rotate the board 90° and spray again to ensure good coverage.
6. Apply additional coats until desired thickness is achieved (go to step 3).
7. Let dry 15 min at room temperature before applying heat cure.
8. After use, clear the nozzle by inverting the can and briefly spraying until clear propellant comes out.



Disclaimer: This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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