

422C Aerosol



Circuit Board Waterproofing Spray

422C-340G is a 1-part, acrylic-silicone blend conformal coating that cures to a durable, flexible and smooth finish. It is easy to apply and can be handled in only 10 minutes. It may be removed with appropriate strippers or soldered through for repair or rework.

422C-340G is designed for applications where both high service temperature and flexibility are required. It puts minimum stress on components during thermal cycling, making it ideal for applications that involve a wide temperature range. It provides strong protection against moisture, corrosion, fungus, dirt, dust, thermal shock, short circuits, high-voltage arcing, and static discharge.

Features & Benefits

Certified UL94 V-0 (File# E203094)

Convenient aerosol packaging

Maximum service temperature of 200 °C

Fluoresces under UV-A light

Corrosion resistant

Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 10 minutes, cure the coating in an oven at one of these time/temperature options:

Temperature	65 °C	80 °C
Time	20 min	10 min



Available Packaging

Part #	Packaging	Net Vol.	Net Wt.
422C-340G	Aerosol	406 mL	340 g

Storage and Handling

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

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Liquid Properties

Binder System	Acrylic	—
Dry Time to Handle	10 min (1 coat) 15 min (2 coats)	—
Minimum Recoat Time	2 min	—
Recommended Film Thickness	25–75 µm	—
Density	0.9 g/mL	ASTM D1475
Viscosity @ 25 °C	TBD	Brookfield Engineering labs Inc. IPCTM-65- Method 2.4.24.4
Percent Solids	15%	—
Theoretical Coverage @ Recommended Thickness	7 200 cm ²	Calculated
Calculated VOC	439 g/L	—
Shelf Life	5 y	—

Cured Properties

UL	94 V-0	—
Color	Clear, amber	—
Resistivity	3.5 x 10 ¹³ Ω·cm	ASTM D257
Breakdown Voltage	>1 500 V	ASTM D149
Dielectric Strength	1 076 V/mil	
Glass Transition Temperature (T _g)	31 °C	ASTM E1545
Coefficient of Thermal Expansion (CTE)	111 ppm/°C (Prior T _g)	ASTM E831
Service Temperature Range	-40–200 °C	—

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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 10 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 10 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.