

Technical Specifications

422A-340G Aerosol

Silicone Conformal Coating (Aerosol)

MG Chemicals 9347-193rd Street, Surrey, BC, Canada V4N 4E7 Phone 1.800.201.8822 Fax 1.800.708.9888



Description:

Silicone resin protective coating for applications where temperature or flexibility is a concern. Protecting printed circuit boards against static discharge, arcing, moisture, humidity, corrosion, and thermal shock.

Applications:

Used when temperature and flexibility are a concern.

Features/Benefits:

- ✓ Clear and colorless.
- ✓ Excellent electrical properties protecting against static discharge and arcing.
- ✓ Excellent adhesion at hot and cold temperatures to metals, ceramics, fiberglass, epoxy, and plastics.
- ✓ Contains a UV indicator to confirm application.
- ✓ Maximum servicing temperature 200°C.
- ✓ Easy to repair.
- ✓ Solids by volume 18%.
- ✓ Solids by weight 25%.
- ✓ Tack free time 30 minutes at 20°C.
- ✓ Full cure 48 hours at 20°C or 1 hour at 65°C.
- ✓ CSA Approved (file #LO 4000-4068)
- ✓ UL Approved

Technical Data:	<i>Physical Properties:</i> Service gravity of liquid: 0.96 Percent solids by weight: 15% (aerosol) Liquid viscosity: 15 centistokes
	<i>Electrical Properties:</i> Dielectric Constant (100MHz): 2.7 Dielectric Strength (kV/mm): 80 Loss angle tangent (100MHz): 0.0014 Volume resistivity (Ohm-cm): 1x10

Chemical Components:

Silicone Resin (mixture)
Dimethyl Ether (115-10-6)
Xylenes (1330-20-7)
2-propanone (67-64-1)
2-butanone (78-93-3)

Health Awareness:

Contents may be harmful. Fumes may be harmful. Contents may catch fire. Use proper ventilation, eye, and hand protection.

Directions:

Refer to Material Safety Data Sheet (MSDS) before use. It is recommended to test the product before use.

All surfaces must be clean, dry, and free of dust, grease, oil, etc... If you are touching up or spraying over conventional finishes, test for compatibility.

Shake can well before using. Spray with an even sweeping motion 6 to 10 inches (15-25 cm) from surface.

To comply with CSA requirements under File No. LO4000-4068, spray an even coat with a minimum application of 0.048 grams per square centimeter. Application measurements can be achieved by first weighing the can, then spraying an even coat, then reweighing the can. Knowing the dimensions of your board, one can calculate as to whether your application is within certified limits. Best results will be obtained by applying to thoroughly cleaned and dried parts or materials.

Apply 2 or 3 coats as desired waiting at least 2 minutes between coats. For best results apply at room temperature (20°C). High temperature and high humidity can cause surface blushing.

At room temperature the product will be tack free in approximately 30 minutes, and full cure will be achieved in approximately 72 hours. Curing may be accelerated by applying moderate heat with either a convection oven or infrared lamps. We recommend curing in a convection oven at 65°C (149°F) for one hour, but other temperature and time combinations can work as well. Heat curing will improve the physical strength of this coating. Clean up with MG Chemicals CAT #435 Thinner Cleaner.

Shipping Information:

Packaged in durable metal aerosol cans.

Ground: Consumer Commodity, ORM-D

Air within continental USA:

Federal Express: Complete Fed Ex dangerous goods declaration, Shipping Name - Consumer Commodity, Class - ORM-D, UN# - n/a, Packing Group - n/a, Sub Risk - n/a, Packing Instructions - n/a, Authorization - n/a, Use M.G. Chemicals UN certified outer carton. Change the ORM-D marking on the outer carton to ORM-D-AIR, Tape all seams on the carton.

UPS: Complete UPS forms marked "Hazardous Materials Shipping Paper" and "Shipper's Certification for Hazardous Materials" with the following information: Shipping name - Consumer Commodity, Class - ORM-D, Label Type - ORM-D-AIR.

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All other air:

Shipping Name - Consumer Commodity, Class 9, ID# 8000,
Packing Group - n/a (leave blank), Sub risk - n/a (leave blank),
Packing instruction - 910, Authorization - n/a (leave blank),
Emergency - phone (613) 996-6666 collect. Use M.G. Chemicals UN certified outer carton. Add a class 9 diamond label to outer carton, mark ID# 8000 below consumer commodity, and write "PACKING INSTRUCTIONS 910" on side of box.. Tape all seems. For further information refer to IATA regulations, or phone M.G. Chemicals technical service at 1-800-201-8822

Sea - All Sizes

Shipping Name - Aerosols / Flammable, Class 2.1, UN1950,
Packing Group - n/a, Vessel Storage - stow clear of living quarters, stow away from sources of heat, may be stowed on deck or under deck on a cargo or a passenger vessel. Mark on box: Aerosols / Flammable, UN1950, packing instructions: Y203. Apply a Class 2.1 flammable compressed gas diamond label to outer carton. Each box not to exceed 30 kg gross weight. Tape all seems. 24 hour Emergency response - phone (613) 996-6666 collect. For further information refer to IMO regulations or phone M.G. Chemicals technical service at 1-800-201-8822 .

Availability:

422A-340G 340g (12oz) Aerosol
422A-P 5mL (0.16 oz) Pen
422-1L 950mL (1quart) Liquid (See Silicone Conformal Coating 422)
422-4 4L (1gal) Liquid (See Silicone Conformal Coating 422)
422-20 20L (5.3gal) Liquid (See Silicone Conformal Coating 422)

Technical Support: MG Chemicals

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