

Technical Specifications

422A-1L / 4L / 20L Liquid

Silicone Conformal Coating (Liquid)

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.

Applications:

Protecting printed circuit boards against static discharge, arcing, moisture, humidity, corrosion, and thermal shock.

Features/Benefits:

- ✓ Contains a UV indicator to confirm application.
- ✓ Easy to repair.
- ✓ Clean up with MG Chemicals CAT #435 Thinner Cleaner.
- ✓ Better at more extreme temperatures.
- ✓ CSA Approved (file #LO 4000-4068)
- ✓ UL Approved

| | |
|------------------------|---|
| Technical Data: | <i>Physical Properties:</i> |
| | Service gravity of liquid: 0.96 |
| | Liquid viscosity: 15 centistokes |
| | Percent solids by weight: 25% (liquid), 15% (aerosol) |
| | Dry to touch time: 30 minutes |
| | Cure time: 72 hours |
| | <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
2-propanone (67-64-1) (Solvent)
Methyl ethyl ketone (78-93-3) (Solvent)
Xylene (1330-20-7) (Solvent)

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. Mix thoroughly before thinning. Dilute with MG Chemicals CAT # 435 Thinner/Cleaner. However

this viscosity is applying apparatus specific and thus should be adjusted accordingly. Higher viscosities will result in thicker coatings.

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.

Shipping Information:

Packaged in durable 1 liter metal cans with proper headspace to ensure there are no accidents during shipping.

Ground: (all sizes 4 liters or less) Consumer Commodity, ORM-D

Ground: - Large Sizes: (all sizes larger than 4 litres)
Shipping Name - Paint related material, Class 3, UN# 1263, Packing Group II, Subsidiary Risk - nil, Use only MG Chemicals U.N. certified outer cartons. Tape all seams on the carton. Hazard Label required - Flammable Liquid. A double arrow orientation label is required and is already printed on the original outer carton. The shipper must be trained and certified to handle documented dangerous goods. References - CFR 49, IATA, Transport Canada TDG.

Air within continental USA: (all sizes 4 liters or less)

Federal Express: Complete Fed Ex dangerous goods declaration, Shipping name - Consumer Commodity, Class - ORM-D, UN # - n/a (leave blank), Packing Group - n/a (leave blank), Sub Risk - n/a (leave blank), Packing Instructions - n/a (leave blank), Authorization - n/a (leave blank). Use M.G. Chemicals UN certified outer carton. A double arrow orientation label is required and is already printed on the original 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, Hazard Class - ORM-D, Label Type - ORM-D-AIR. 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. Refer to UPS guide for shipping hazardous materials.

All other air: (all sizes 4 liters or less)

Shipping Name - Consumer Commodity, Class 9, ID# 8000,

Technical Specifications

422A-1L / 4L / 20L Liquid

Silicone Conformal Coating (Liquid)



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

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. A double arrow orientation label is
required and is already printed on the original outer carton.
Add a class 9 diamond label to outer carton, and mark ID# 8000
below consumer commodity. Tape all seems. For further
information refer to IATA regulations, or phone M.G. Chemicals
technical service at 1-800-201-8822.

All other air Including Continental USA - Large sizes (all sizes
larger than 4 liters) Shipping Name - Paint related material,
Class 3, UN# 1263, Packing Group II, Subsidiary Risk - nil, IATA
Packaging Instructions - 305, Use only MG Chemicals U.N.
certified outer cartons. Tape all seems on the carton. Hazard
Label required - Flammable Liquid. A double arrow orientation
label is required and is already printed on the original outer
carton. The shipper must be trained and certified to handle
documented dangerous goods. References - CFR 49, IATA,
Transport Canada TDG.

Sea - All Sizes:

Shipping Name - Paint related material, Flash point -18C, Class
3, UN# 1263, Packing Group - II, Vessel Storage - stow clear of
living quarters, stow away from sources of heat, may be stowed
on deck or under deck on a cargo vessel, must be stowed on
deck on a passenger vessel. Use M.G. Chemicals UN certified
outer carton. Hazard Label required - Flammable Liquid. A
double arrow orientation label is required and is already
printed on the original outer carton. Tape all seems. Emergency
- 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:

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

Technical Support: MG Chemicals

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