

## Super Shield Conductive Coating (Liquid)

### 843-900mL; 843-1G

#### Description:

A general purpose shielding spray to reduce or eliminate electromagnetic/radio-frequency interference for use on plastic electronic enclosures. Consists of a tough, durable acrylic base pigmented with a high purity nickel flake.

1 to 2 mil coating provides an effective shielding of 40dB to 75dB, tested up to a frequency of 11 GHz as per IEEE Std. 299-1997.

#### Applications:

Useful for shielding and grounding plastic enclosures against EMI/RFI.

#### Features/Benefits:

- Excellent adhesion to most plastics at both hot and cold temperatures.
- Touch dry time: 10 minutes at room temperature (20°C).
- Recoat time: 5 minutes.
- Underwriters Laboratories Recognized File No. E202609.
- Available in both liquid and aerosol.
- Liquid version for dipping, brushing or spray gun applications.
- Thinner available for adjusting viscosity (MG CAT # 435-1L Thinner/Cleaner).
- Approximate coverage is 8300 square inches.

#### Technical Data:

59.5% Silver Coated Copper Flakes  
71% Solids  
Approximate Surface Resistance: 0.3 ohms

#### Chemical Components:

Acrylic Resin  
Silver (7440-22-4)  
Copper (7440-50-8)  
2-butanone (78-93-3)  
Xylene (1330-20-7)  
Toluene (108-88-3)  
Ethyl acetate (141-78-6)  
1-methoxy-2-propanol acetate (108-65-6)  
n-butyl alcohol (71-63-3)  
Glycol ether ester (763-69-9)  
Methyl alcohol (67-56-1)  
2-propanol (67-63-0)

**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 to a 1:1 ratio. However this viscosity is applying apparatus specific and thus should be adjusted accordingly. Higher viscosities will result in thicker coatings.

Apply a 1.0 to 1.5 mil coating for good shielding performance. Dry handling time is approximately 5 to 10 minutes depending on ambient temperature. Full cure will take approximately 24 hours. Cure time may be accelerated with heat. Do not cure at temperatures above 65°C. After drying time is reached, resistance should be less than 0.4 ohm obtained at a 1 inch spacing using rounded tip ohmmeter.

**Shipping Information:**

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

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 (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:**

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. 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 seams. For further information refer to IATA regulations, or phone M.G. Chemicals technical service at 1-800-201-8822

**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 seams. 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.

**Technical Support:**

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

**Availability:**

843-900mL	900mL (0.25Gal)	Liquid
843-1G	1 Gallon	Liquid