843AR Aerosol

Super Shield™ Silver Coated Copper Conductive Spray Paint



843AR is a conductive paint that consists of a 1-part, solvent-based acrylic lacquer, pigmented with a highly conductive silver-coated copper flake. It is smooth, hard, and abrasion resistant. It is a ready-to-spray system, with no let down necessary. It has a quick dry time, with no heat cure necessary. It adheres strongly to most injection-molded plastics, such as ABS, PBT, PVA and ABS/PC blend. It provides excellent shielding levels at high frequencies.

843AR is designed to provide a conductive coating for the interior of plastic electronic enclosures that suppresses EMI/RFI emissions. It excels when higher levels of shielding are required.

Features & Benefits

- UL Recognized (File # E202609)
- Provides effective EMI/RFI shielding over a broad frequency range
- Mild solvent system, safe on polystyrenes
- Does not contain toluene, xylene, or MEK
- Available in liquid format (see separate TDS)

Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
843AR-340G	Aerosol	400 mL	340 g

Contact Information

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Cured Properties

Resistivity	2.2 x 10^{-4}	Ω·cm
Surface Resistance @ 50 µm	0.08	Ω/sq
Service Temperature Range	-40–120	˚C

Usage Parameters

Recoat Time	3	min
Cure Times	24 h @ 22 30 min @ 65	˚C ˚C
Recommended Film Thickness	50–65	µm
Minimum Film Thickness	30	µm
Theoretical Coverage @ 2 mil (based on 50% transfer efficiency)	3 100	cm^2

Uncured Properties

Viscosity @ 25 ˚C	87	cP
Density	0.99	g/mL
Percent Solids	16	%
Shelf Life	3	y
Calculated VOC	404	g/L

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Safety Data Sheet

Read the product SDS and Application Guide for more detailed instructions before using this product (downloadable at www.mgchemicals.com).

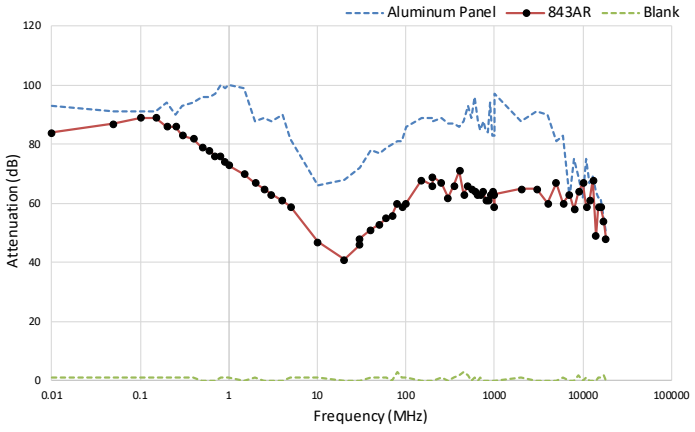
Recommended Preparation

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

Application Instructions

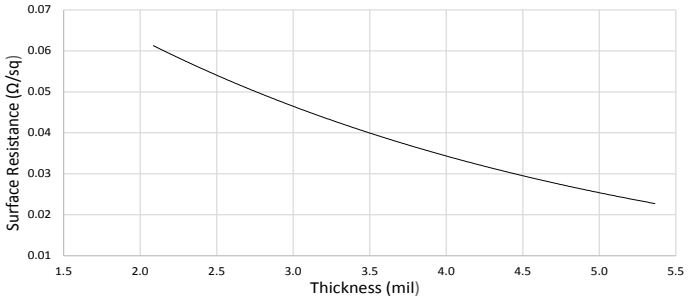
1. Shake the can vigorously.
2. Spray a test pattern to ensure good flow quality.
3. Tilt the board at 45° and spray a thin, even coat from a distance of 20–25 cm (8–10 in). Use spray-and-release strokes with an even motion to avoid paint buildup in one spot. Start and end each stroke off the surface.
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 3 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.

Shielding Attenuation



Test performed with a two-coat thickness.

Surface Resistance by Paint Thickness



Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 3 minutes, cure the paint in an oven for 30 minutes @ 65 ˚C.

Storage and Handling

Store between -5 and 40 ˚C in a dry area, away from sunlight (see SDS).

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.