

Technical data sheet



Product: 843ER

Manufacturer: MG CHEMICALS

Product group: ELEKTRO

Article group: 2-K KLEBSTOFF

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843ER SILVER COATED CONDUCTIVE PAINT

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843ER Liquid



Super Shield™ Silver Coated Copper Epoxy Conductive Paint

843ER is a 2-part epoxy-based conductive paint, pigmented with highly conductive silver-coated copper flake. The cured paint is smooth and extremely hard. It is abrasion, scratch, and mar resistant. It adheres very strongly to plastics, including chemically resistant and low energy plastics, as well as metal, glass, ceramic and wood.

843ER is generally used to provide extremely durable EMI/RFI shielding for applications in harsh environments.

Features & Benefits

- Provides excellent EMI/RFI shielding across a broad range of frequencies
- Extreme durability and adhesion
- Strong chemical resistance—except acids

Available Packaging

| Cat. No. | Packaging | Net Vol. | Net Wt. |
|-------------|-----------|----------|---------|
| 843ER-800ML | 2 Can Kit | 810 mL | 895 g |
| 843ER-3.25L | 2 Can Kit | 3.25 L | 3.59 kg |

Contact Information

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Cured Properties

| | |
|---------------------------------------|---|
| Resistivity | $1.8 \times 10^{-3} \Omega \cdot \text{cm}$ |
| Surface Resistance @ 50 μm | 0.31 Ω/sq |
| Service Temperature Range | -40–120 °C |

Usage Parameters

| | |
|---|-------------------------------|
| Working Time | 8 h |
| Recoat Time | 3 min |
| Cure Times | 4 h @ 65 °C 2 h @ 80 °C |
| Recommended Film Thickness | 90 μm |
| Minimum Film Thickness | 50 μm |
| Theoretical Coverage @ 2 mil (based on 100% transfer efficiency) | 47 840 cm^2/L |

Uncured Properties

Mixture

| | |
|---------------------|----------|
| Density | 1.0 g/mL |
| Percent Solids | 30 % |
| Shelf Life | 3 y |
| Calculated VOC | 779 g/L |
| Mix Ratio by Volume | 100:36 |
| Mix Ratio by Weight | 100:28 |

Individual Parts

| | |
|-------------------|--|
| Color | (A) Metallic brown (B) Clear, amber |
| Viscosity @ 25 °C | (A) 35 cP (B) 9.0 cP |

843ER Liquid



Application Instructions

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 #824-1L, so the surface is free of oils, dust, and other residues.

Mixing

Ensure each part is mixed individually before they are mixed together. Scrape settled material from the bottom and sides of each container and stir contents until homogenous. Next, thoroughly mix parts A and B together, in a 100:36 ratio by volume.

Paint Roller and Brush

Use a standard paint roller, foam brush or MG #855 horse hair brush. Use long even strokes to minimize streaking.

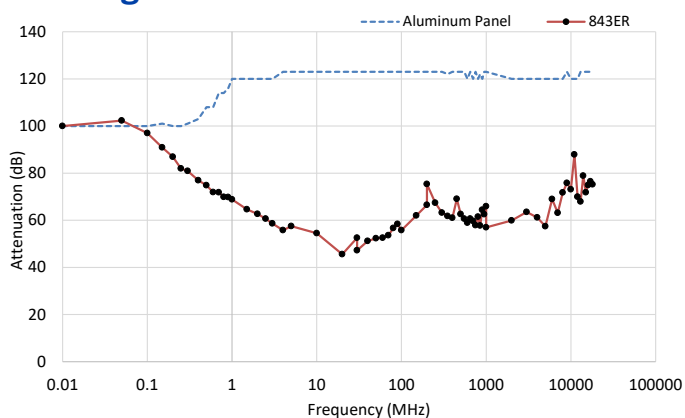
Manual Spray Guns

Use a standard fluid nozzle gun to spray the mixture. The settings listed below are recommendations; however, performance will vary with different brands:

| | LVMP | HVLP |
|---------------------|------------|------------|
| Nozzle tip diameter | 1.2–1.8 mm | 1.4–1.8 mm |
| Inlet pressure | 5–15 psi | 5–15 psi |
| Air flow | 10–15 SCFM | 8.3 SCFM |
| Air cap | 5–10 psi | 5–10 psi |

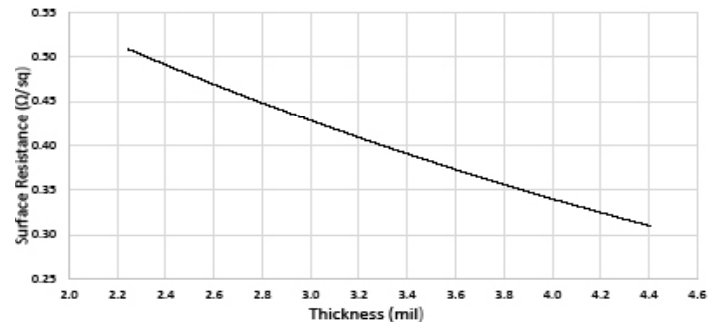
When using a pressure pot and agitator, keep the agitator at low mixing speed with air pressure of 20–50 psi. Use the lowest pressure necessary to keep the particles suspended.

Shielding Attenuation



Test performed with a two-coat thickness.

Surface Resistance by Paint Thickness



Selective Coating

For higher volume applications, paint can be applied via selective coating equipment. Use a system with constant fluid recirculation to keep the particles from settling in the lines. A fluid nozzle ranging from 1.2 mm to 1.8 mm diameter and 5–10 psi fluid pressure is recommended depending on nozzle size.

Cure Instructions

Allow to sit at room temperature for 3 minutes and then cure the paint in an oven using one of these options:

| | | |
|-------------|-------|-------|
| Temperature | 65 °C | 80 °C |
| Time | 4 h | 2 h |

Clean-up

Clean spray system and equipment with MEK or acetone, MG # 434.

Storage and Handling

Store between 16 and 27 °C in a dry area, away from sunlight (see SDS).

Disclaimer

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