

Technical data sheet



Product: 841ER

Manufacturer: MG CHEMICALS

Product group: ELEKTRO

Article group: 2-K KLEBSTOFF

Download: 15.03.2026

841ER LIQUID

This data sheet was provided to you by Tewipack Uhl GmbH. The company tewipack Uhl GmbH assumes no responsibility for the topicality and the Accuracy of the information contained. The properties of the products can vary due to various influences such as composition and condition of the Substrate, impurities in or on the substrate, temperature and humidity at the Change storage and environmental conditions during use. Using this product in combination with other material, the customer is responsible for to check through our own tests whether the product is suitable for the planned combination and whether this combination delivers the expected results

Tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett

Telephone:
+49(0)7051/9297-0
Fax:
+49(0)7051/9297-99

E-Mail:
info@tewipack.de
Website:
www.tewipack.de

Managing director:
Alexander Uhl,
Michael Uhl
HRB 330424
Amtsgericht
Stuttgart

Bank details:
Sparkasse
Sindelfingen
Pforzheim
Calw
BLZ 666 500
85
Konto 17 787

Commerzbank
Sindelfingen
BLZ 603 400 71
Konto 8 001 166

Vereinigte
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708

841ER Liquid



Super Shield™ Nickel Epoxy Conductive Paint

841ER is a 2-part epoxy-based conductive paint, pigmented with highly conductive nickel flake. The cured paint is smooth and extremely hard. It is abrasion, scratch, and mar resistant. It adheres very strongly to most plastics, including chemically resistant and low energy plastics, as well as metal, glass, ceramic and wood.

841ER is generally used to provide extremely durable corrosion resistant 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, corrosion, and salt fog resistance

Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
841ER-1.17L	2 Can Kit	1.17 L	1.92 kg
841ER-3.25L	2 Can Kit	3.25 L	5.34 kg

Contact Information

MG Chemicals, 1210 Corporate Drive
Burlington, Ontario, Canada L7L 5R6

Email: support@mgchemicals.com

Phone: North America: +(1)800-340-0772

International: +(1) 905-331-1396

Europe: +(44)1663 362888



Cured Properties

Resistivity	3.0 x 10 ⁻² Ω·cm
Surface Resistance @ 50 µm	4.3 Ω/sq
Service Temperature Range	-40–150 °C

Usage Parameters

Working Time	4 h
Recoat Time	5 min
Cure Times	4 h @ 65 °C 2 h @ 80 °C 1 h @ 100 °C
Recommended Film Thickness	75 µm
Minimum Film Thickness	40 µm
Theoretical Coverage @ 2 mil (based on 100% transfer efficiency)	28 000 cm ² /L

Uncured Properties

Mixture

Density	1.81 g/mL
Percent Solids	32 %
Shelf Life	3 y
Calculated VOC	1 294 g/L
Mix Ratio by Volume	100:38
Mix Ratio by Weight	100:25

Individual Parts

Color	(A) Grey (B) Grey
Viscosity @ 25 °C	(A) 200 cP (B) 18 cP

841ER 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 4:1 ratio by weight.

Paint Roller or Brush

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

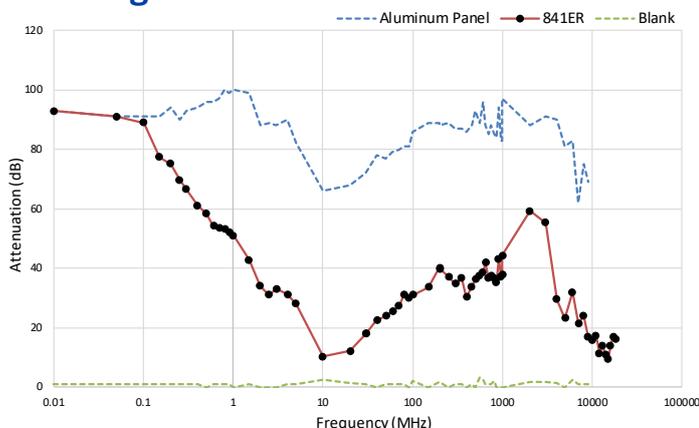
Manual Spray Guns

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	1.2–1.4 mm	1.2–1.4 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

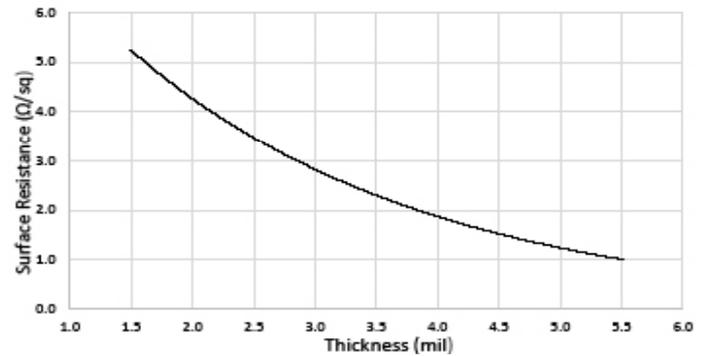
When using a pressure pot and agitator, keep the agitator at low mixing speed with air pressure of 20–50 psi. Use the lowest pressure necessary to keep the particles suspended.

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 1.4 mm diameter and 5–10 psi fluid pressure is recommended depending on nozzle size.

Cure Instructions

Allow to sit at room temperature for 30 minutes and then cure the paint in an oven using one of these options:

Temperature	65 °C	80 °C	100 °C
Time	4 h	2 h	1 h

After heat cure, let sit for 30 minutes at room temperature before handling.

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

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.