

Water Based Conductive Shielding Paints



Protection Against EMI/RFI: Low VOC/Environmentally Safe

MG Chemicals WBU series are water-based conductive shielding paints that are designed for protection against EMI/RFI. These easy-to-use, 1-part systems are intended for use in building interiors where shielding against EMI/RFI is a necessity. Compared to the AR series, WB paints enjoy the benefits of being non-flammable, low VOC and having low odor.

841WBU - Nickel conductive paint for broad spectrum shielding

842WBU - Silver conductive paint for premium shielding performance

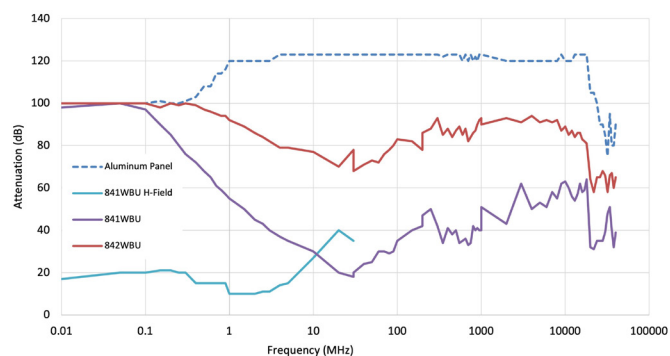
Features & Benefits

- 1-part system
- Ready to spray, no dilution required
- Low odor
- Excellent adhesion to drywall and most plastics
- Ships as non-DG by air
- Can be painted over with architectural paints

Applications

- Plastic enclosures for PCBs
- EMI shielding for operating rooms and military facilities

Shielding Attenuation



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UNCURED PROPERTIES

Conductive filler	Nickel	Silver
Format	Liquid	Liquid
Color	Grey	Metallic silver
Percent solids	58%	55%
Density @ 25 °C [77 °F]	1.8 g/mL	1.6 g/mL
Viscosity @ 25 °C [77 °F]	120 cP	300 cP
Calculated VOC	174 g/L	180 g/L
Recommended Film Thickness	65 µm	25 µm
Minimum Film Thickness	50 µm	15 µm
Theoretical coverage @ Recommended Thickness (based on 100% transfer efficiency)	40 800 cm ² /L	94 000 cm ² /L
Recoat time (ABS)	6 min	10 min
Recoat time (Drywall)	5 min	5 min
Cure time @ 22 °C [71.6 °F]	24 h	24 h
Cure time @ 65 °C [149 °F]	3 h	1 h

CURED PROPERTIES

Resistivity	0.084 Ω·cm	0.00016 Ω·cm
Surface resistance @ 50 µm	5.9 Ω/sq	0.0023 Ω/sq
Salt fog resistance @ 35 °C [95 °F], 96 h	TBD	TBD
Constant service temperature	TBD	TBD
Adhesion (ABS/PC)	5B	5B
Pencil hardness	2B, soft	HB, soft
Magnetic class	Ferromagnetic	Diamagnetic

AVAILABLE PACKAGING

Net contents	55 mL (bottle)	55 mL (bottle)
	850 mL (metal can)	850 mL (metal can)
	3.78 L (metal can)	3.78 L (metal can)

