



# Product Information

[www.miller-stephenson.com](http://www.miller-stephenson.com)

## G0831B RFI Nickel Conductive Coating

### Description

An excellent way to limit EMI/RFI emissions is with a Milshield Conductive Coating. G0831B is a black coating, which may be applied in a 2 mil layer to absorb EMI/RFI over a broad frequency range. This coating can be used effectively with Acrylic, Polycarbonate, ABS, Polystyrene, PVC and other plastics.

Agitate material before and during use to prevent settling of the active ingredients. Apply to a clean, dry surface in a well-ventilated area at temperatures between 70-85°F.

### APPLICATIONS:

RFI Nickel Conductive Coating can be applied by dipping, brushing and/or spraying. For best results when spraying, maintain pressure between 20-30 psi; adjust nozzle for acceptable spray pattern. Several light coats (2-3) applied from a distance of 10-12 inches will provide a 1.5-2.0 mil coating. Allow each coating to dry for 30 minutes before applying another coat. Do not dilute or contaminate with water.

### PHYSICAL PROPERTIES:

**Surface Resistivity** (ASTM D-257): 0.7 ohm/sq.

**Adhesion on polycarbonate** (ASTM D-3359): 3

**Static Decay** (5000 volts to zero): Instantaneous

### Attenuation

(IEEE 299-2006 modified using a Duel TEM Cell)

- 1 mHz: 51.0 dB
- 10 mHz: 58.8 dB
- 100 mHz: 38.9 dB
- 1000 mHz: 57.3 dB

### ELASTOMER COMPATIBILITY:

(Immersion: 15 mins at Room Temperature)

• Butyl Rubber	• Natural Rubber
• Polysulfide	• EPDM
• Buna S	• Buna N
• Neoprene	• Urethane
• Chlorosulfonated PE	• Silicone
• Viton™	

**NOTE:** Elastomer swelling and shrinking will, in most cases, revert to within a few percent of original size after air drying. Swell, shrinkage, and extractables are strongly affected by the compounding agents, plasticizers, and curing used in the manufacture of the elastomers. Test for compatibility before use.

### METAL COMPATIBILITY:

(Immersion: 2 weeks at 99°F/37°C)

- Aluminum
- Copper
- Iron
- Steel

**Note:** Test for compatibility before use.

**Safety Data Sheet (SDS) is available upon request**

1452-9K

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