

# PRO-SHIELD® 7100

## NICKEL FILLED ELECTRICALLY CONDUCTIVE COATING



### Customer Value Proposition:

Parker Chomerics PRO-SHIELD® 7100 is a nickel filled electrically conductive coating.

PRO-SHIELD 7100 is a cost-effective EMI shielding solution for plastic parts or electronic enclosures. This durable coating provides protection from extraneous electromagnetic waves in electronic equipment.

The ferromagnetic properties of the nickel filler absorb electromagnetic waves providing good shielding over a range of frequencies.



### Contact Information:

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### Product Features:

- Easy to use
- One component acrylic
- Dark grey/black in color
- Two hour working life
- Fully cured in two-four hours
- Volume resistivity: < 1.0 ohm-sq
- Shielding effectiveness: 50 dB

### Typical Applications:

- Electronic assemblies
- Medical devices
- Industrial cabinets
- Access panels
- Engine Control Modules (ECMs)
- Telecom Infrastructure
- Portable electronics

For best adhesion, PRO-SHIELD 7100 should be applied to a clean, dry, and oil free surface. A primer may be required for adhesion to solvent resistant plastics.

Note: Coating may blush (white discoloration of drying surface) when applied in a high humidity environment (temperature >80 F and relative humidity > 50%).

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# Product Information

## PRO-SHIELD 7100 ELECTRICALLY CONDUCTIVE PAINT

PRO-SHIELD 7100		
Typical Properties	Typical Values	Test Method
Packaging	Quart, Gallon	N/A
Primer Included	No	N/A
Polymer Family	Acrylic	N/A
Filler Material	Nickel	N/A
Color	Black	N/A
Surface Resistivity (ohm-sq)	< 1.0	N/A
Shielding Effectiveness (dB) Avg.	45-60	CHO-TM-TP11
Calculated VOC (g/L)	760	Calculated
Average solids (weight) %	32	Calculated
Average solids (vol.) %	11.4	Calculated
Specific Gravity	1.1	ASTM D792
Theoretical Coverage* (ft <sup>2</sup> /gal)	91	N/A
Recommended Thickness (mil)	0.002	N/A
Shelf life, date of manufacture (months)	9	N/A

### Ordering Information

Part Number	Packaging	Weight (grams)
90-04-7100-0000	1 quart aluminum can	910
90-03-7100-0000	Gallon	3640



WARNING: This product contains chemicals known by the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)