

Nickel Screening Compound

Product Code: NSC

PRODUCT DESCRIPTION

NSC is an electrically-conductive coating based on nickel powder in a thermoplastic resin. It is an extremely efficient EMI/RFI screening coating. It will adhere to a wide variety of substrates and can be used to coat cabinets for a variety of electronic and electrical housings. The coating becomes touch dry 5 minutes after application and achieves maximum conductivity after 24 hours.

NSC is available in aerosol and bulk forms. Both are 100% Ozone Friendly. If higher electrical conductivity is required, please ask for details on Silver Conductive Paint (SCP).

PRODUCT USE

On the inside of computer cabinets, VDUs, etc., as a Faraday cage and in other electronic/electrical applications requiring screening from electromagnetic and radio-frequency interference. (For professional use only)

FEATURES

- * 100% Ozone Friendly
- * Excellent surface resistivity (0.3-0.7 per sq. at 50 microns).
- * Enhanced adhesion to wide variety of substrates including ABS, and many other plastics, with superior scratch resistance (Pencil Hardness 9H)
- * Excellent attenuation levels.
- * Specially formulated to avoid problems of settlement, therefore providing even surface coating.
- * Fast drying at room temperature.
- * Coats complex shapes.
- * Prevents static build-up.

TECHNICAL
DATA
SHEET

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TYPICAL PROPERTIES

Colour:	Dark Grey
Surface Resistivity @ 50 microns:	0.3 - 0.7 Ohms per sq.
Specific Gravity @ 20°C:	2.03 g/ml(Bulk), 1.28 g/ml(aerosol)
Drying Time (touch dry):	5 minutes (maximum conductivity after 24 hours; can be reduced by drying in oven after touch dry)
Flash Point:	17°C
Viscosity:	14600 cPs
Approximate Coverage (200ml Aerosol dry film thickness):	0.5 sq. metre at 50 micron
Adhesion (Cross Hatch Test BS3900E6):	Excellent
Typical Attenuation (Electrical):	
Frequency MHz	20 60 250 500
Attenuation dB	62 65 62 55
Pencil Hardness	9H
Operating Temperature Range:	-40 - +95°C

DIRECTIONS FOR USE

Aerosol

Shake thoroughly before use. A minimum of 2 minutes is recommended. Ensure surfaces are free from dust, dirt and grease. For some substrates e.g. polypropylene a suitable primer may be necessary. Please consult Electrolube Technical Department. Holding aerosol in upright position apply in light even strokes from side to side. More than one coat may be necessary to achieve desired specification. After use invert can and spray until nozzle is clear. Use in well ventilated area.

Spray Gun

For in-house spraying, **Nickel Screening Compound** can be supplied in bulk containers (see below). The recommended dilution/mix ratio is 1:1 with **Electrolube Non-Acrylic Conformal Coating Thinners (DCT)**. This product is for professional use only.

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PACKAGING

ORDER CODE

Nickel Screening Compound

400ml Aerosol
5 Litre Bulk

NSC400H
NSC05L

Thinners

1 Litre Bulk
5 Litre Bulk

DCT01L
DCT05L



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