



Nanotech Eco EMI Armour Paint

Graphene Powered Carbon Water Based Paint for EMI/RFI Shielding and Heat Management

Product Overview

Nanotech Eco EMI Armour Paint is a one-part, aqueous conductive paint based on Nanotech Premium Graphene Technology, designed to attenuate electromagnetic interference (EMI) or radio frequency interference (RFI) and dissipate heat for heat management. These features are critical for the modern technology, in which heat sinks utilize conduction and convection for heat dissipation in order to avoid thermal shutdown. High chemical resistance of our proprietary carbon mix also makes this coating highly corrosion proof and scratch resistant.

This paint is ready to spray, roll or brush and requires no heat treatment, safe for heat sensitive substrates. It adheres strongly to plastic, metal, glass and textile substrates and mild non-solvent based formulation makes it applicable for plastic prone to solvent dissolution, such as polystyrene and polyethylene.

**All numbers listed in this sheet have been confirmed by third party testing.*

Item #: 905130	
Product Specifications*	
Conductive filler	Proprietary Graphene Mix
Form	Liquid
Solvent	Water
Color	Black
Viscosity	2000-3000 cP (25°C)
VOC contents	None
Density	1.5 ± 0.1 kg/L
Solid content (by weight)	40-45 %
Thinner	Water
Recoat/respray time	10-30 min
Cure time	20 h@25°C 20 min@50°C
Recommended coating thickness	900-1000 µm (dry)
EMI Shielding Effectiveness	38 dB at 1 GHz, 45 dB at 10 GHz, 58 dB at 18 GHz, 72 dB at 37 GHz (at 900 µm dry thickness)
Electric conductivity	500-600 S/m (dry film)
Thermal conductivity	2.54 ± 0.015 W/(m·K) (dry film)
Theoretical coverage	160 mL/square foot for 1000 µm dry thickness (not including paint lost to containers and spraying gun)

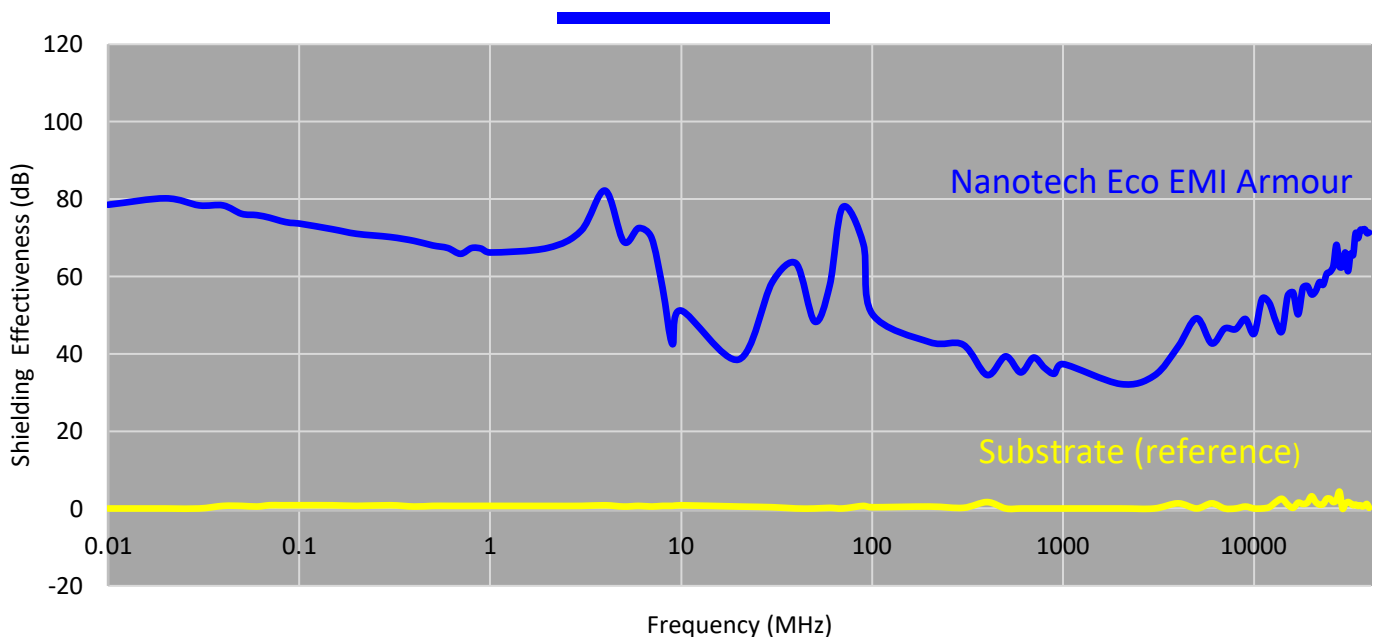
Product Features

- High electrical conductivity
- High EMI/RFI attenuation across a wide range of frequencies.
- Solvent free, safe on most substrates
- Easy to spray or brush
- RoHS compliant

Application Methods

- Air-spray, doctor blade, dip and roll coating
- Please read our air-spray instructions and SDS for more details

Shielding Effectiveness/Signal Attenuation Data* 900 µm thick coating (dry)



*Tested in compliance with IEEE STD.299-2006 and MIL-STD-285 by a third party

Clean-up & Storage

- Clean spray system with de-ionized water
- Store in a sealed container between 0-45°C, away from sunlight

Disclaimer

The information claimed is believed to be accurate. Nanotech Energy Inc. holds no guarantee to the accuracy of data and no liability in connection with damages when using the product.

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