WB-120 Waterborne RFI/EMI Conductive

Key Features

- Environmentally beneficial-because it is waterborne
- Cost effective and user friendly
- Improved coverage because of higher solids
- Excellent attenuation, low surface resistivity
- Excellent adhesion and aging characteristics

It Works for the Environment

Whether the need is to conform to U.S. EPA standards or state air pollution control agency standards, the concern for reducing volatile organic compounds (VOC) is real. The use of solvent based EMI/RFI paints emits VOC's into the atmosphere. Isolex WB-120 coatings offer a way of reducing VOC's without the expense of solvent recovery systems.

Since it is waterborne, Isolex WB-120 contains only a fraction of the VOC's found in solvent based paints. It is formulated to meet the most stringent regulations that have been proposed by the EPA or state environmental agencies – and regulators are focusing on increasingly smaller emission sources.

You can see the dramatic reduction of VOC emissions with Isolex WB-120 coatings, and there is no sacrifice in performance. The potential for explosion and flammability hazards with solvents is also eliminated.

VOC Content of EMI/RFI Shielding Coatings

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User Friendly

- Requires no dilution, just shake or stir and use.
- Needs no primer or other surface preparation.
- Containers can be resealed and stored for later use
- Resists pigment settling.

Typical Properties

Color	Grey
Weight, lbs./gallon	13.5 – 14.5
Solids, % by weight	63.0 ± 1%
Viscosity, Zahn cup #3	14 – 18 sec.
Diluent	Water
Flash point	n/a
Theoretical coverage @ 1 mil	600 – 615 sq. ft./gl.
Volatile organic content	1.8 lbs./gal.

Improved Coverage

Uniquely formulated Isolex WB-120 coatings have a higher percentage of solids and can offer up to 40 percent improvement in surface coverage per gallon.

Theoretical Coverage

Conductive coating	Coverage* (Sq. Ft./Gallon)
Solvent-based A	500
Solvent-based B	425
Waterborne A	400
Isolex WB-120	615

*1 mil, 100% transfer efficiency

Shielding Effectiveness

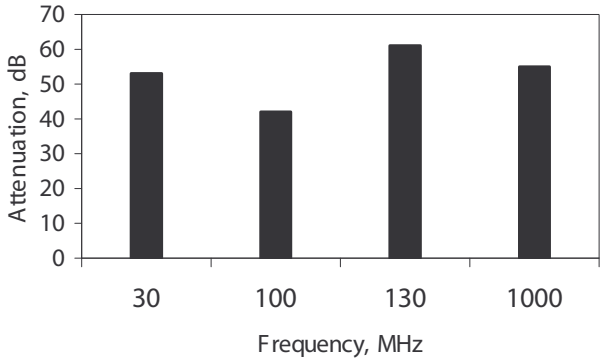
Isolex WB-120 coatings provide a very effective shield from electromagnetic interference for business machines and other electronic devices, with typical surface resistivities less than .5 ohms/square, and they offer equivalent or superior performance to the traditionally used solvent-based shielding coatings.

Attenuation Capability

Isolex WB-120 coatings demonstrate excellent attenuation – up to 50dB – across the FCC mandated frequency range.

Isolex WB-120 Shielding Effectiveness
(Dual Chamber Method)

Low Surface Resistivity



Low Surface Resistivity

High conductivity, as indicated by low surface resistivity, provides better EMI/RFI shielding effectiveness. Isolex WB-120 waterborne/nickel coatings are unique in offering lower surface resistivities in thinner films than most solvent-based coatings. This gives them a critical advantage in shielding hard to coat parts.