

ME-505

Microwave Isolation Coating



ME-505 broadband Electrical isolation coating is a coated carbon based paint in a proprietary urethane acrylic resin. It provides broadband RF isolation in a thin format. Its durable abrasion resistant finish is stable in hot and cold environments. The product can be applied with a brush or sprayer or screen printed. It has excellent UV and fire resistance.

This product can be applied to various surfaces including but not limited to sheetrock, wood and metal.

ME-505 has some RF absorptive properties which can be maximized when used in conjunction with an electrically conductive ground plane, as a when applied to a metal surface or conductive wallpaper.

Applications:

- Extraneous reflection reduction of outdoor antenna motion equipment
- Extraneous reflection reduction of RCS test facilities
- Equipment covering and concealment
- Low Observable

Mechanical Data:

Thickness:	2.0 - 8.0 mils per layer nominal (depending on application technique)
Color:	Charcoal Grey
Dry Weight:	1.26 gm/mil for an area of 12"x 12" (30cm x 30 cm)
Resistance:	Fire, Abrasion, UV, Salt and Corrosion
Coverage:	Nominally 100 ft ² /gal (3.8L) using two coats

Typical Performance

Isolation: Nominally -14 dB per mil

ME-505 is an electrically resistive absorber. The center frequency is a function of dielectric spacing and conductivity after cure.

Application Note:

This material can be tailored to provide specified conductivity in a coating. Please contact factory with exact requirements