

EMI/RFI Shielding Paint

Formulation No: M2 – 3, Status Code C

Ingredients	w/w	Supplier
Elvacite® 2016	9.45	Lucite International
MEK	17.55	
Bentone SD-2	5.00	NL Chemicals
Nickel HCA-1	45.00	Novamet
Toluene	12.50	
MEK	7.50	
Diacetone alcohol	<u>3.00</u>	
	100.00	

Specification:

Viscosity	(20 ° C Rotothinner) 4-5 poise
Density	1.7
Resistance	<1 ohm/linear cm
Dry film thickness	50 microns
Substrate	Noryl or ABS

Thin 1:1 with MEK/Toluene/DAA (45/45/10 ratio)

Elvacite® 2016 is a methyl methacrylate/butyl methacrylate co-polymer purely used to bind to the nickel. The nickel is flake type material, resulting in a conductive coating shielding EMI/RFI radiation from the outside in and vice versa in electronic equipment. PVC is critical as the CPVC is approached the conductivity improves at a much faster rate with a higher proportion of flakes in direct contact.

Alternative metals are also suitable such as copper, silver and silver plated copper, depending on the degree of conductivity required. Bentone SD-2 induces some thixotropy into the coating to aid stability and application.

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