



## Technical Data Sheet

### CRAMOLIN® EMI Lacquer Art. No. 124

#### Product description

EMI-LAC is a copper-based, silver-coated, highly conductive, protective coating which shields from electromagnetic waves. It ensures protection both from electromagnetic interferences (EMI) and from electromagnetic discharges (ESD). The subsequent shielding and attenuation can be achieved with thinner layers than with copper-based products normally used. EMI-LAC is easy to apply and exhibits high stability even under extreme environmental conditions such as heat and moisture. The lacquer is well-bonding and can be used without a primer on metal, glass and plastics. It does not attack the materials in common use and dries quickly.

#### Application

Subsequent shielding of plastic cabinets from electromagnetic waves. Proves particularly effective in EDP, electronic laboratories, measurement technique, motorcar equipment and entertainment electronics. For the use in the manufacture of electrical contact connections and as protection against corrosion of manipulated aluminum casings. Best results will be obtained with film thicknesses between 40 µm and 75 µm.

#### Please note

Surface to be treated has to be free of greases, oil, wax etc. Spray on the whole surface of parts to be treated, maintaining a distance of approximately 30 cm, otherwise the layer applied will flow. Should the spray nozzle get clogged, clean it using a thinner, acetone or turpentine.



#### Technical Data

Color:	copper
Pigment:	silver coated copper
Resin:	acrylic
Specific gravity (20° C):	0,60 [g/cm <sup>3</sup> ]
Drying conditions at Room temperature:	10 min dry to touch 24 h totally cured
Drying conditions in an oven:	10 min at room temperature then ca. 30 min at 60 - 70° C in an oven
Surface resistance:	<0,25Ω/square (50 µm film thickness)
Attenuation:	60 - 65 dB for 50 µm film thickness (ASTM ES 7-83)
Necessary coat thickness:	20 - 50 [µm]
Coverage:	1 - 2 [m <sup>2</sup> /can] (50µm Layer)
Temperature resistance:	-40 up to + 95 [° C]

#### Storage / Shelf Life

Shelf life is 2 years if stored correctly.  
Package after emptying to be disposed via metal scrap.