

Agar Quick drying silver paint

AGG302 & AGG3691

Description: *Electrodag 1415 M is the latest in a series of coatings which provide Electromagnetic Compatibility (EMC) and it has been specifically designed to give increased coverage while maintaining a very high conductivity. Thus it is a very economic means of achieving excellent shielding against radiated electromagnetic interference (EMI).
It maintains its low resistance even after exposure to heat, cold, humidity and salt spray. It is an air drying system that requires no primer or top coat. It is easily applied by spray or brush and is compatible with plastics commonly used for electronic equipment enclosures.*

Typical Applications:

Plastic enclosures of mobile telephones; laptop and notebook personal computers; industrial, military, scientific and medical equipment.

Typical Properties: (of wet product)

Pigment	:	Silver
Binder	:	Thermoplastic resin
Solids content	:	57.5 – 59.0%
Viscosity (Brookfield 20°C, 20 rpm)	:	250 – 500 mPa.s
Flashpoint	:	14°C
Density	:	ca. 1630 kg/m ³
Theoretical coverage	:	ca. 9m ² /kg at 10µm coating thickness
Diluent	:	MEK/Diacetone alcohol (2 : 1 by weight)
Shelf life	:	18 months from date of qualification under original seal

Method of use: Surface preparation

Make sure substrate is clean (free from dirt and grease) and dry.

Mixing and dilution

*Thoroughly homogenize Electrodag 1415 M before use. Check to make sure there are no unmixed solids at the bottom of the container.
Use Electrodag 1415 M neat for brush application. For spray application dilute the product at a ratio of 2 : 1 by weight product to diluent. Use a blend of MEK/Diacetone alcohol (2 : 1 by weight) for dilution. If the evaporation speed of this mixture is too low, reduce the amount of DAA.*

Application

A conventional paddle-agitated pressure tank system should be used when applying Electrodag 1415 M by spray. It is recommended to maintain a spray pressure of 2 to

2.5 bar and to use a spray gun with a nozzle diameter varying from 1 to 1.5 mm. Small prototype runs may be sprayed with well mixed product, using suction cup spray equipment.

A 10 to 15 μm coating thickness is recommended for good EMI shielding performance. Avoid "dry spraying", for maximum adhesion and conductivity.

Drying

This product dries to touch in about 10 minutes and can be handled after a further 10 minutes approximately, depending on ambient temperature. Good coating properties will be achieved after 4 - 8 hours air drying (depending on coating thickness and temperature). For production runs, conventional forced drying methods (30 min./70-80°C) may be used for faster processing. Forced drying of the coating will noticeably improve conductivity.

Cleaning

For high volume production where masks are used, they can be cleaned with ester (butylacetate, ethylacetate) or ketone (MIBK, MEK) solvents. Spray and mixing equipment can be cleaned with the same solvents

Typical Properties: (on Lexan panels dried 30 min./70°C)

Sheet resistance : < 0.015 Ohm/square at 25 μm coating thickness
Attenuation : 60 dB at 25 μm coating thickness at 1000 MHz
Max. service temperature: 105°C

Storage: Store the product at temperatures between 5 and 30°C.

Health & Safety: See separate Material Safety Data Sheet

Note: *Electrodag® is a registered trademark of Acheson Industries Inc.
The data contained on this sheet represents typical properties and is not to be used as a basis for preparation of specifications.*

