Method of Use

Fast Drying Silver Paint

Fast Drying Silver Suspension 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. This veryfine flake silver is suspended in methyl iso-butylketone and forms a thin, smooth, highly conductive silver film which is both adherent and flexible.

Method of Use:

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

Mixing and Dilution
Thoroughly homogenize before use. Check to make sure there are no unmixed solids at the bottom of the container. Use Fast Drying Silver Suspension 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
Brush on for applications on small areas. A conventional paddle-agitated pressure tank system should be used when applying Fast Drying Silver Suspension 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 um 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.

Storage:
Store the product at temperatures between 41 and 86°F (5 and 30°C)