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Innovative Chemistry For High-Tech Applications

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AG-610
FAST DRYING SILVER FILLED
ELECTRICALLY CONDUCTIVE INK/COATING

AG-610 is a unique electrically conductive silver filled ink designed for applications requiring fast drying at room or moderate temperatures. AG-610 can be thinned with solvent for spraying or dipping and can be applied by syringe or other dispensing methods. AG-610 is not recommended for screen, pad, gravure or flexographic printing due to its fast drying characteristics. AG-610 is extremely tough, scuff resistant, crease resistant and has excellent adhesion to polyester, polyimide and most other polymer substrates as well as metal surfaces. AG-610 is excellent for making repairs to circuit traces or jumpers.

AG-610 is compatible with our UV curable dielectrics, all of our conductive epoxy adhesives and our UV curable component encapsulants and conformal coatings.

TYPICAL PROPERTIES

Appearance	Thixotropic Silver Colored Paste
Viscosity	
Brookfield SC21 spindle, 20/sec shear	<200 cps
Thixotropic Ratio	1
Drying Schedule	3 to 5 Minutes At Room Temperature
Shelf Life	6 Months In Unopened Container
Total % NV Solids	60% +/- 2%
Hegman Gage	<50.0 μ
Surface Resistivity	.050 Ω /Square

MORE INFORMATION ON REVERSE SIDE OF SHEET

NOTE: Although the above properties are accurate to the best of our knowledge, Conductive Compounds, Inc. makes no guarantees for customer specifications established in applications where this product is used. Customer assumes responsibility for determining fitness of use in their particular application

**AG-610 FASTER DRYING
SILVER FILLED ELECTRICALLY CONDUCTIVE
SCREEN PRINTABLE INK/COATING**

APPLICATION GUIDELINES

Always mix ink thoroughly before using and during, as silver will settle quickly. Continuous agitation during application is recommended. If silver settles to a hard pack in container, then aggressive mixing is required to break up the silver chunks and redisperse them in the liquid.

For thinning and cleanup, use MEK or other suitable solvents. If ink dries completely on a surface it will be much more difficult to remove.

It is essential that all residual solvent be removed from this ink once it is applied. Incomplete drying will cause the ink to appear dry on the surface while trapping solvent underneath the surface. Over time, this trapped solvent will migrate out of the ink, and can cause adhesion problems with any material (such as dielectrics) applied over the ink.

To check completeness of drying, monitor the point to point electrical resistance along one of the conductive paths until there is no change in resistance over time.

The above guidelines are intended to provide a starting point for evaluation. Conductive Compounds, Inc. recognizes that each customer's manufacturing process is unique, and we can customize the rheology of AG-610 to conform to the process parameters. We are also available to provide on-site technical assistance to resolve your processing issues. Call us to discuss your application in more detail.

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