SILVER LINING®
CONDUCTIVE COATING: AIR DRY
SERIES A905
ACRYLIC LATEX, EMI/RFI SHIELD

DESCRIPTION
Silver Lining® is an all-acrylic latex conductive coating designed for use as an EMI/RFI shield coating for computers, electronic cabinets and structures and also as a reflective satellite dish coating.

OUTSTANDING FEATURES/BENEFITS
- Nontoxic and Safer than nickel or copper coating alternatives
- Emits low odor and cleans up easily with water
- Offers excellent crosscut adhesion on concrete and almost every commercial plastic used in electronic enclosures
- Provides excellent conductivity
- Acts as an excellent EMI/RFI shield to substrates
- Offers application versatility: May be air dried or force cured
- Has minimal dish-to-dish reflective loss
- Reduces application time. The formula’s high volume solids results in greater film build. When sprayed, the correct film thickness is usually achieved with one coat.

TYPICAL USES
- EMI/RFI shield coating for electronics industry
- Reflective coating for satellite dishes

IMPORTANT NOTICE TO BUYER / WARRANTY AND LIMITATIONS ON OUR LIABILITY

We warrant our products to be free of manufacturing defects and that they meet our current published physical properties and specifications. All information and suggestions presented are rendered gratis and are accurate to the best of our knowledge. They are based on technical data we believe to be reliable and are intended for use by persons having skill and knowledge in the field. We assume no responsibility for results obtained, or damages incurred, from their use beyond representing material to be defective or refunding the purchase price of such material at our option. Acceptance of delivery of our product means you have accepted the terms of this warranty, whether or not purchase orders of other documents state terms that vary from this warranty. No seller is authorized to make any representations or warranty or assume any other liability on our behalf with any sales of our products.

COMPOSITION AND PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Weight per gallon</td>
<td>7.5 – 8.0 lbs./gallon</td>
</tr>
<tr>
<td>Weight Solids</td>
<td>55.0 – 58.0% (as supplied)</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>60.0 ± 2.0% (as supplied)</td>
</tr>
<tr>
<td>VOC - water</td>
<td>&lt; 1.0 lbs./gallon (120 g/L)</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild Ammonia</td>
</tr>
<tr>
<td>pH</td>
<td>9.0 ± 0.3</td>
</tr>
<tr>
<td>Viscosity ASTM D562</td>
<td>70 – 80 KUs @ 77°F</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>24 Months from Date of Manufacture</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>40°F to 90°F</td>
</tr>
<tr>
<td>Freeze/Thaw Stability</td>
<td>Stable 1 cycle</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Above 200°F</td>
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</tbody>
</table>

*Actual figures do not include spray loss. Also allow for surface irregularities and porosity, as well as material loss when mixing.

PERFORMANCE AND FUNCTIONAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Resistance</td>
<td>Steady: 200°F Peak: 300°F</td>
</tr>
<tr>
<td>Reflective Loss</td>
<td>0.01 dB at 18.0 GHz</td>
</tr>
<tr>
<td>Resistivity</td>
<td>&lt;1.0 Ω / sq. @ 2.0 mils</td>
</tr>
</tbody>
</table>

Revision Date: 01/18/2019
COVERAGE
One gallon of this material will cover 480 sq. ft. with a dry film thickness of 0.002 inches. Coverage depends upon methods of application and other variables such as overspray and type of surface to be coated. Above coverage rates are based on 100% efficiency.

SURFACE PREPARATION
Wipe with appropriate solvent that will not adversely affect the substrate.

STIRRING
Silver particles may rise to the surface during shipment. Push gently into the liquid below and mix mildly before using. Mix mildly every 5 - 10 minutes during application.

THINNING
For Spraying: Reduce sparingly with deionized water, spray 30 – 40 psi, 12 inches from surface of substrate. Apply 3.7 – 4.0 wet mils.

APPLICATION
HVLP spray guns are recommended for best results. In all cases, avoid dry spraying Silver Lining®.

Application by HVLP. Binks Mach 1 spray gun (or equal) is recommended. Use 97AP air cap with 97 / 1.7 mm fluid nozzle. Maintain a wet edge. Apply 3.3 to 3.5 mils. Mildly mix the material every 5 – 10 minutes during application.

Application by conventional air. To avoid dry spray: Reduce sparingly with deionized, RO, or distilled water. Spray at 30 – 40 psi, maintain spray gun distance at 12 inches from the substrate being sprayed. Apply 3.7 to 4.0 wet mils. Maintain a wet edge but avoid sags. Mix during use when thinned. Very small areas and touch ups may be brush applied.

CURING
Ambient Cure: Air dry @ 77°F ± 5°F and ≤70% relative humidity.
   Dry to Touch .................................. 20 minutes
   Full Cure .................................. 24 hours

Force Cure: After a flash time of 30 minutes, product can be force cured according to the following schedule:
   20 minutes @ 140°F.

IMPORTANT! The time starts when the part reaches temperature, not when placed in a Class A oven.

CLEANUP
Use water to clean up equipment before product dries.

WARNINGS: Intermittent stirring is necessary for best results.

DANGER! USE WITH ADEQUATE VENTILATION.