

CuPro-Cote™

Water-Based High-Conductivity Shielding Coating

Recommended Equipment

1. Spray Gun: Use Devilbiss Type MBC 510 or equivalent.
2. Fluid Tip: Use an opening of at least 0.060 with corresponding needle.
3. Air Cap: Use Devilbiss 30, 58 or their equivalents.
4. Either a standard cup gun or pressure pot can be used.
Cup Gun: Paint must be stirred or swirled almost continuously while painting.
Pressure Pot: Must have an agitator with decent sized paddles. Use Shortest fluid hose necessary for free gun movement.
5. Film Thickness Gauge: Paint Inspection Gauge IV (Plastic), Tooke Gauge from Micro-Metrics Company.
6. Ohm Meter: Fluke Model 580 Micro Ohmeter with spring loaded four (4) points probe for ohms/sq measurement OR with two (2) spring loaded probes for point to point measurement.
For less precise testing use a Fluke 45 Dual Display Multimeter with round end probes for point to point measurement OR equivalent with resolution to 0.001 ohms.
MAKE SURE THE INSTRUMENT IS CALIBRATED TO ZERO.

Application Tips

1. Make sure all equipment is set up before opening container.
2. Make sure the paint is mixed thoroughly and strained before use.
3. While spraying, paint should be mixed continuously.
4. Use adequate atomization air, i.e. 50-60 psi.
5. Use a wide enough fan for adequate overlap of coverage.
6. Achieve a balance between spray that is too dry and spray that is too wet for optimum film formation. If spray is too dry, the paint will not form a smooth and integral film. If spray is too wet, sagging may occur.
7. Try to achieve a dry film thickness of at least 1.0 – 2.0 mils depending on resistivity requirements.
8. Bake Schedule: 30 minutes air dry followed by 30 minutes at 140F. Conductive coatings will reach their final hardness and lowest surface resistivity approximately 24 hours after application. A quick resistivity check can be done after the recommended bake schedule (above). Since the resistance of the applied coating gradually decreases with drying time it is recommended that the final resistance be checked after 24 hours. This will give a constant and reliable value.