

LOW VOC SILVER EPOXY COATING

DESCRIPTION

CHO-SHIELD® 579 coating is a two component, silver-filled, highly conductive epoxy paint designed to provide EMI shielding when applied to a dielectric substrate. This coating was specifically developed as a variant of CHO-SHIELD 596 with a lower VOC rating.

CHO-SHIELD 579 dries to the touch in less than 1 hour at room temperature and attains full chemical resistance after 1 week at room temperature. However, the best electrical properties are achieved by curing at elevated temperatures.

PERFORMANCE

CHO-SHIELD 579 has a VOC rating of 376 grams per liter.

CURE SCHEDULES

1. 1 hour at RT (75°F) and 1 hour at 150°F, followed by 1 hour at 250°F (recommended), or
2. 1 hour at 75°F and 1 hour at 250°F, or
3. 1 hour at 75°F and 6 hours at 150°F, or
4. 1 hour at room temperature followed by 4 hours at 175°F



Table 1 – Typical Properties

Nominal Specific Gravity	1.80
Volume Resistivity*	0.06 ohm/sq.
Spray Viscosity (No. 2 Zahn Cup)	18 – 24 seconds
Pot Life at 24°C (75°F)	8 hours
Shelf Life at 24°C (7°F)	9 months
Theoretical Yield	7200 in ² /lb.

(*) Based on a 1 hour room temperature drying period followed by 1 hour at 250°F (121°C) cure.

ORDERING INFORMATION

Product	Part Number	Unit Size
CHO-SHIELD 579	52-01-0579-0000	1 lb. (454 g)

APPLICATION INSTRUCTIONS

Mix parts A and B in the ratio of 100 parts of A to 32.09 parts of B by weight.

Apply the coating with an air gun such as a DeVilbiss Model EGA 502 with a 66SA air nozzle and 395 fluid nozzle. The spray viscosity range is typically 15 seconds (No. 2 Zahn Cup). The paint should be ready to use as mixed. Note: While the coating can be thinned as required with a mixture of 1 part methyl ethyl ketone (MEK) and 1 part toluene, "over-thinning" degrades electrical performance. Consult Chomerics Applications Department for assistance as required.

Apply the coating to a .6 to 1.0 mil thickness. (A wet film of 2 mils is approximately 1 mil when dry.) A 30-minute solvent flash is required between coats. The last coat should dry at room temperature for at least one hour prior to any elevated cure.

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