



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CHO-SHIELD® 576

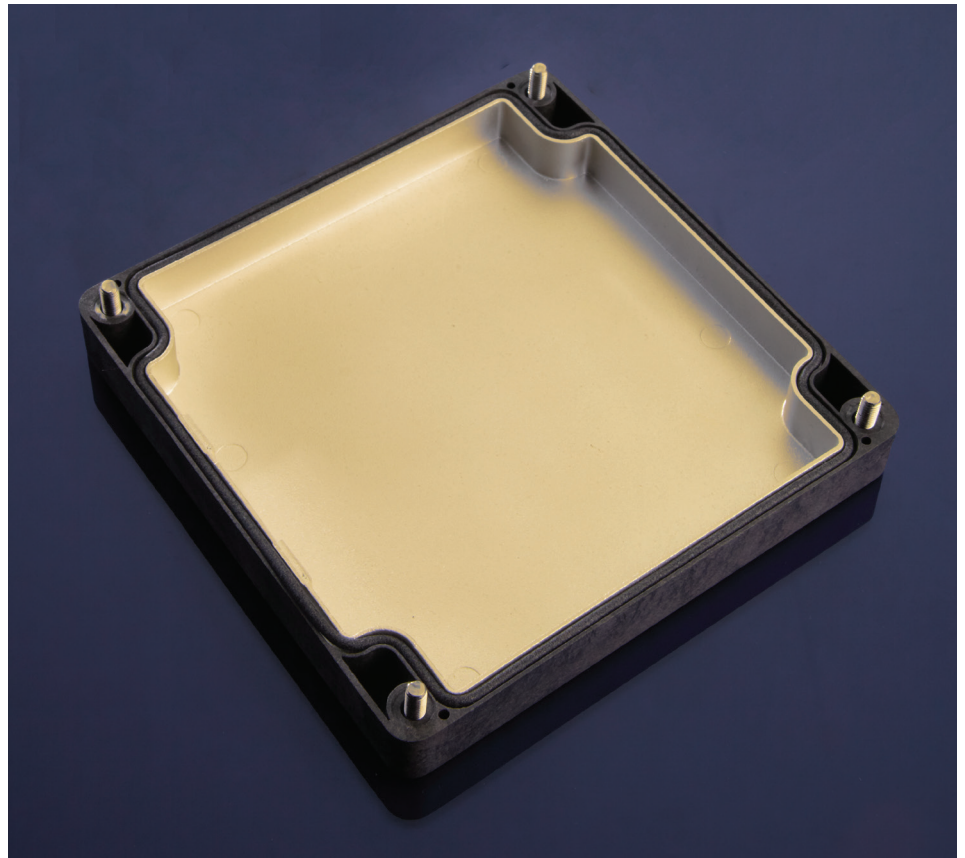
ELECTRICALLY CONDUCTIVE PLATABLE SILVER EPOXY COATING



Customer Value Proposition:

CHO-SHIELD 576 is a two component, silver filled conductive epoxy coating specially formulated to accept an electrolytic plating layer. The conductive silver filler's size and morphology are carefully chosen to provide multiple nucleation sites which promote the formation of a continuous and uniform electrolytic plating layer. The resulting plating and coating system forms a robust and highly conductive layer over a non-conductive plastic substrate. Advantages of this type of plating/conductive coating systems include: the ability to put down multiple metal layers with minimum thickness build-up, good adhesion to plastic and composite substrates, and the formation of a highly conductive solderable layer on a dielectric plastic substrate.

Typical applications include military and commercial components which require a highly conductive uniform metal coating for soldering or dissipating an electrical charge.



Features and Benefits:

- Two component
- Pre-measured kit allows easy mixing of components in one container.
- Silver flake filler
- Provides excellent surface conductivity for electrolytical plating of plastic or graphite composites.
- Epoxy coating
- Strong, tough, and durable coating.

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CHO-SHIELD 576 - Application Information

Mix parts A and B in the ratio of 100 parts of A to 27.5 parts of B and the solvent blend. ***The solvent blend should be added to achieve a spray viscosity of 12 to 18 seconds (using a Zahn #2 cup). Part B and the solvent blend should always be added to the part A to minimize waste. To apply the coating, use a standard HVLP spray gun with approximately 20-40psi (138-276kPa) atomizing air and a fluid nozzle with a minimum orifice diameter of 0.040 inches (1.016mm).

The coating should be ready to use as mixed. NOTE: Overthinning degrades electrical performance and may inhibit spraying. Apply the coating to a 0.6 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. Consult Parker Chomerics Applications Department for assistance as required.

Table 1 Thinning of CS 576 for Application

Weight of CS 576 Part A (grams)	Weight of CS 576 Part B (grams)	Weight of Solvent Blend (grams)
100	27.5	Refer to Apps Info
361*	100*	Refer to Apps Info

NOTE:

Before spraying CHO-SHIELD 576, age the compound for at least 1 hour at room temperature after mixing.

* Full kit of 52-01-0576-0000

*** Solvent blend is 50/50 by weight (or volume) of Toluene and MIBK (Methyl isobutyl ketone)

Table 2 Typical Properties

CHO-SHIELD 576		
Typical Properties	Typical Values	Test Method
Polymer	Epoxy	N/A
Filler	Silver	N/A
Mix Ratio (A:B by weight)	100 : 27.5	N/A
Color	Tan-Grey	N/A (Q)
Spray Viscosity	12 to 18 seconds	Zahn Cup Number 2 (Q)
Surface Resistance (max.) at 0.001 inches (25 µm, 1 mil)	<= 0.060 ohms / square	CEPS-0002 (Q/C)
Recommended Dry Film Thickness	.001" (25 µm)	N/A
Wet Density	1.7	ASTM D792 (Q/C)
Continuous Use Temperature	-40 to 150°C (-40 to 302°F)	N/A (Q)
Pot Life	8.0 hrs	N/A (Q)
Drying Time- Room Temperature Tack Free	1 hour @ 21°C (70°F)	N/A
Drying Time- Room Temperature Full Dry**	1 week @ 21°C (70°F)	N/A
Drying Time- Elevated Temperature Full Dry	Cure Cycle Option 1: 1.0 hr @ 21°C (70°F), followed by 1.0 hr @ 121°C (250°F) Cure Cycle Option 2: 1.0 hr @ 21°C (70°F), followed by 6.0 hr @ 66°C (150°F)	N/A
Shelf Life at 21°C (70°F), unopened, from Date of Manufacture	9 months	N/A (Q)
Calculated VOC	560 g /L	Calculated
Theoretical coverage at recommended dry film thickness	0.092 ft ² /gram 0.0085 m ² /gram 605 ft ² /gallon	N/A

Notes: N/A – Not Applicable, (Q/C) - Qualification and Conformance Test, (Q) - Qualification Test, the above properties are based on Cure Cycle 1.

* This test Method is available from Parker Chomerics.

** Cure is sufficient for handling in 24 hours. Full specification properties are developed after 1 week (168 hours) at room temperature.

Ordering Information

Product	Weight (grams)	Packaging	Chomerics Part No.	Primer Included
CHO-SHIELD 576	454	2 component kit A: 1 pint aluminum can B: 4 fluid ounce amber glass bottle	52-01-0576-0000	Not Required

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

www.chomerics.com

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