

# CHO-BOND 580-208

## TWO COMPONENT ELECTRICALLY CONDUCTIVE EPOXY BUS BAR ADHESIVE



### Customer Value Proposition:

CHO-BOND 580-208 is a two-component, silver filled conductive epoxy adhesive system designed to be thinned and applied as an ink or spray coating. This type of application results in a uniform conductive surface with good bonding strength to a variety of substrates.

Curing of CHO-BOND 580-208 can be achieved in as little as 45 minutes with heat to minimize equipment downtime and increase manufacturing throughput. With a 1:1 weight mix ratio, CHO-BOND 580-208 is easy to handle and use. Typical applications for CHO-BOND 580-208 include bus bars and grounding of EMI shielding windows.



### Features and Benefits:

- Two component
- Silver filler
- Epoxy
- 1:1 Weight mix ratio
- Medium paste
- Material formulated to be thinned with solvent
- Fast heat cure, increases throughput, minimizes equipment downtime.
- Good conductivity 0.003 ohm-cm.
- 60 minute working life, works well over wide temperature range, good chemical resistance >700 psi lap shear, good for permanently bonding surfaces.
- Easy to weigh out and mix
- May be dispensed out of needles, fill small cracks and voids
- Easy application, material can be sprayed or screen printed for bus bars. Solvent weight mix ratio is 50:30:20, toluene:n-butanol:n-propanol.

### Contact Information:

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## CHO-BOND 580-208 - Product Information

**Table 1 Typical Properties**

CHO-BOND 580-208		
Typical Properties	Typical Values	Test Method
Polymer	Epoxy	N/A
Filler	Silver	N/A
Mix Ratio, A : B (by weight)	1 : 1	N/A
Color	Silver	N/A (Q)
Consistency	Medium Paste	N/A (Q)
Maximum DC Volume Resistivity (Cure Cycle 1)	0.003 ohm-cm	CHO-95-40-5101* (Q/C)
Minimum Lap Shear Strength (Cure Cycle 1)	700 psi (4826 kPa)	CHO-95-40-5300* (Q/C)
Specific Gravity (Room Temp Cure)	2.9	ASTM D792 (Q/C)
Hardness (Cure Cycle 1)	80 Shore D	ASTM-D2240 (Q)
Continuous Use Temperature	- 62°C to 100°C (-80 °F to 212 °F)	N/A (Q)
Elevated Temperature Cure Cycle	<b>Cure Cycle Option 1:</b> 0.75 hours @ 100°C (212°F) <b>Cure Cycle Option 2:</b> 2.0 hours @ 66°C (150°F)	N/A
Room Temperature Cure	24 hours	N/A (Q)
Working Life	1.0 hour	N/A (Q)
Shelf Life, unopened	9 months @ 25°C (77°F)	N/A (Q)
Minimum thickness recommended	0.001 in (0.03 mm)	N/A
Maximum thickness recommended	None	N/A
Volatile Organic Content (VOC)	0 g/l	Calculated
Theoretical Coverage Area at 0.010" Thick per Pound (454 grams)	9,500 in <sup>2</sup> (61,290 cm <sup>2</sup> )	N/A

Note: N/A – Not Applicable, (Q/C) - Qualification and Conformance Test, (Q) - Qualification Test  
 \* This test Method is available from Parker Chomerics.

**Table 2 Ordering Information**

Product	Weight (grams)	Packaging	Part Number	Primer Included
CHO-BOND 580-208	227	2 component, 8 fluid ounce polypropylene kit	50-05-0580-0208	Not Required
	454	2 component, 16 fluid ounce polypropylene kit	50-01-0580-0208	Not Required

Please refer to Parker Chomerics Surface Preparation and CHO-BOND Application documents for information regarding the proper surface preparation, primer application (if required), and use of these compounds.

[www.chomerics.com](http://www.chomerics.com)  
[www.parker.com/chomerics](http://www.parker.com/chomerics)

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