# CHO-BOND 580-208

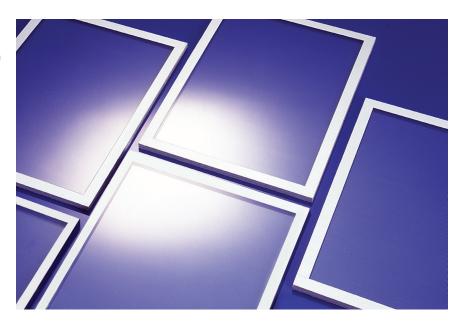
# TWO COMPONENT ELECTRICALLY CONDUCTIVE EPOXY BUS BAR ADHESIVE



### **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
- Fast heat cure, increases throughput, minimizes equipment downtime.
- Silver filler
- Good conductivity 0.003 ohm-cm.

Epoxy

- 60 minute working life, works well over wide temperature range, good chemical resistance >700 psi lap shear, good for permanently bonding surfaces.
- 1:1 Weight mix ratio
- Easy to weigh out and mix
- Medium paste
- May be dispensed out of needles, fill small cracks and voids
- Material formulated to be thinned with solvent
- 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	Ероху	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	Cure Cycle Option 1: 0.75 hours @ 100°C (212°F) Cure Cycle Option 2: 2.0 hours @ 66°C (150°F)						
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 in² (61,290 cm²)	N/A					

Note: N/A - Not Applicable, (Q/C) - Qualification and Conformance Test, (Q) - Qualification Test

#### **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.

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This test Method is available from Parker Chomerics.