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## TECHNICAL DATA SHEET 846

Page 1 of 1

# PC550A&B

## Versatile, Tough Epoxy Adhesive

### DESCRIPTION

**PC550A&B** is an epoxy adhesive designed for bonding and sealing when high strength and toughness is required.

Unlike most epoxies, **PC550A&B** cures to be a non-rigid, tough polymer. Because of its toughness and versatile adhesion it is especially useful for bonding dissimilar materials.

**PC550A&B** has good adhesive properties to many substrates. Including: metals, composites, ceramics and many plastics. It is especially good for bonding fiberglass.

**PC550A&B** cures at room temperature and has a convenient easy to use mix ratio of 1:1. It will cure in 1 day at room temperature but can also be cured by heating to 80°C for 1 hour or 60°C for 2 hours.

### UNCURED PROPERTIES

	Part A	Part B	Mix
Type	Epoxy	Amine	
Color	Black	White	Gray
Specific Gravity	1.32	1.40	1.53
Viscosity@ 25°C, cps	50,000	40,000	42,000

### PROCESS PARAMETERS

This product is best dispensed through a static top mixer. A uniform gray mixture being dispensed is a good indication of complete mixing of the components.

#### Mix Ratio

	Part A	Part B
By Weight	100	105
By Volume	1	1

#### Mixed Product

Pot Life @ 25°C	30 minutes
Gel Time @25°C	90 minutes
Bond Set Time @ 25°C	2-4 hours

### CURED PROPERTIES

Property	Units	Value
Hardness@25°C	Shore D	70
Hardness@100°C	Shore D	50
Adhesion to Aluminum	Psi	2200
Peel Strength	pli	30
Temperature Range of Use	°C	-50 to 120

*(Under low stress conditions, or through intermittent exposures, the material is suitable through +150°C)*

### STORAGE AND HANDLING

Shipping	Room temperature
Storage	Room temperature
Safety	Refer to MSDS for details

*All values are considered typical based on tests believed to be accurate. Polysciences, Inc. may change the data as appropriate.*

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