

U.S. Corporate Headquarters 400 Valley Rd. Warrington, PA 18976 1(800) 523-2575 / (215) 343-6484 1(800)343-3291 fax info@polysciences.com Polysciences Europe GmbH Handelsstrasse 3 D-69214 Eppelheim, Germany +(49) 6221-765767 +(49) 6221-764620 fax info@polysciences.de Polysciences Asia-Pacific, Inc. 2F-1, 207 Tunhwa N. Rd. Taipel, Taiwan 10595 (886) 2 8712 0600 (886) 2 8712 2677 fax info@polysciences.tw

TECHNICAL DATA SHEET 843

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Structural Epoxy Adhesive PC500

DESCRIPTION

PC500 is a structural epoxy adhesive. Its high strength and durability make the product particularly useful for demanding bonding applications requiring very high performance properties. Unlike many other epoxies, **PC500** cures to be a tough high impact resistant material. The product has very good adhesion to many metals, ceramics and thermosetting plastics.

PRODUCT FEATURES

- Fast Cure with heat exposure
- High Performance Structural Adhesive
- High thermal conductivity
- Excellent adhesive
- High durability
- High impact and peel strength

TYPICAL PROPERTIES

ColorGray PasteViscosityViscous Paste-200,000 cpsSpecific Gravity1.35

TYPICAL CURED PROPERTIES

Durometer Tg Adhesive Shear Strength Temperature Range of Use 80D 125°C 4000 psi (ASTM D-1002) -40°C through 150°C (intermittent exposure thru 180°C)

APPLICATION

PC500 is best applied through a 14 gauge or larger orifice tip onto the surface to be bonded or sealed. Sufficient product should be applied to provide full coverage to the bond area.

CURING

PC500 can be cured through a variety of thermal cycles. Typical ones are:

Glue Line Temperature	Time (Minutes)
125°C	45
150°C	20
170°C	10

Actual time to cure will depend on several factors. These include:

- Mass of the part to be heated
- Thermal conductivity of the part being heated
- Size and efficiency of the curing oven

 $\ensuremath{\text{PC500}}$ can also be cured rapidly by infra-red or induction heating systems.

STORAGE AND HANDLING

Shipping	Recommended temperature is refrigerated or frozen
Storage	Store at 25°C for up to 3 months
	Store at 0°C for up to 12 months
Safety	Refer to MSDS for details

North America (United States)

1 (800) 523-2575 / (215) 343-6484 1 (800) 343-3291 / (215) 343-0214 fax

Europe (Germany) (49) 6221-765767 / (49) 6221-764620 fax

Asia-Pacific (Taiwan) (886) 2 8712 0600 / (886) 2 8712 2677 fax

Online anytime at: polysciences.com

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