

Conformal Coat *CC1003*

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. Taipei, Taiwan 10595 (886) 2 8712 0600 (886) 2 8712 2677 fax info@polysciences.tw

TECHNICAL DATA SHEET 685

Page 1 of 1

DESCRIPTION

CC 1003 is an epoxy based conformal coating. The product has been designed for coating and sealing of electronic components requiring high heat resistance and durability. The product has excellent adhesion, chemical resistance and is easy to process.

FEATURES

- Low Viscosity
- Dual Curable by UV or heat
- **Excellent Adhesion**
- **High Heat and Chemical Resistance**
- Hiah Gloss

UNCURED (WET) PROPERTIES

Туре	Formulated Epoxy Resin Composition
Color	Clear and Colorless to Pale Yellow
Viscosity	600 cPs
Solids	60%

USAGE

Apply CC 1003 by brush, dip or spray methods to the surface to be coated.

DRYING OF COATING

The applied coating should be placed in an air circulating oven or hot plate @ 40°C-80°C to dry the coating. For a typical coating thickness this is 10-20 minutes. The dried coating will be dry and tack free at room temperature.

CURING

The dry coating can be cured by exposure to high intensity UV-A light, or by heat curing.

Typical heat cure cycles:

Temperature °C	Time, minutes
125	120
150	60
160	40

CURED PROPERTIES

Property	Units	Value
Hardness @ 25°C	Shore D	85
Color	Colorless to pale yellow	
Temp. Range of Use	°C	-60 thru + 270 *
Transmittance @ 400nm	%	>95
@ 600nm		>97
@ 800nm		>97
Tg	°C	125
Modulus	GPa	2.50

STORAGE AND HANDLING

Storage	12 months @ <5°C
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.

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

Should any of our materials fail to perform to our specifications, we will be pleased to provide replacements or return the purchase price. We solicit your inquiries concerning all needs for life sciences work. The information given in this bulletin is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.