

HI-POLY 529 A/B Epoxy Potting Compound (High Viscosity)

Product Information Sheet

For reference only, not for specification use

DESCRIPTION:

High temperature potting and sealing compound for passive electronic devices.

USES:

Designed for high temperature protection and insulation for passive electronic devices.

ADVANTAGES:

- Excellent bonding
- High temperature operation
- Fire retardant

PACKAGING:

Packaged in kits as pre-proportioned batches for error-free mixing and application.

SURFACE PREPARATION:

In general, the surface to be resurfaced or bonded must be clean, sound, dry and above 10°C to assure an optimum bonding. All surface contaminants must first be thoroughly removed by chemical and/or mechanical means.

PHYSICAL PROPERTIES:

Mixing ratio (by weight.): A : B = 100 : 13

	Part A	Part B	Test Method
Color	Black	Amber	Visual
Solids Content, %	100	100	ASTM D115
Specific Gravity	1.14	1.03	ASTM D792
Viscosity (cps)	50,000	500	ASTM D2393
Shelf life @ 25°C (Starting from Invoice Date)	1 year		-

* All measurements taken @25°C unless otherwise noted.

CURED PHYSICAL PROPERTIES	HI-POLY 529	Test Method
Color	Black	Visual
Glass Transition ,Tg, (°C)	160	ASTM D3386
Hardness, Shore D	84	ASTM D2240

* All measurements taken @25°C unless otherwise noted.

For Industrial Use Only

APPLICATION:

1. By appropriate dispensing tools.
2. Weight accurately; any variation in mix ratio will result in degraded properties
3. Use only in ventilated area
4. Use fume mask and gloves
5. Avoid skin contact (Part B is CORROSIVE!)
6. Part B is heat & moisture sensitive. Leaving the can open for long period will lead to yellowing and decrease in shelf life.
7. If sediment is found in Part A, mix well separately before mixing with Part B

Caution: Avoid large mass., severe exotherm may occur!!

8. Because of the high purity, crystallization may occur if the storage temperature is < 20°C. Customer can heat the Part A in an oven, until the Part A appears complete fluid. This method will not affect the properties of the material. Completely cool down the material before mixing.

Suggested Temperature & Time

Weight	Oven Temperature	Time
1 kg	60 °C – 80 °C	1 – 2 hr
10 kg	60 °C – 80 °C	3 – 4 hr

CURING SCHEDULE:

Operation temperature: up to 140°C or above

Curing Time	HI-POLY 529A/B
Full Cure in Oven @ 150 °C	3 hrs

CLEAN UP:

Tools should be cleaned immediately after use with soap and water. Solvents such as Xylol or paint thinner can also be used. But care should be taken before using any flammable & hazardous solvents.

DISPOSAL:

Dispose in accordance with local regulations. Use licensed hazardous waste company.

Empty containers may contain product residue, including flammable or explosive vapor. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been properly disposed of.

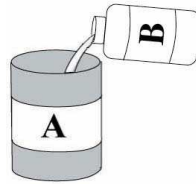
Storage:

- Part B is heat & moisture sensitive, store in a cool, dry place.
 - Mixed materials cannot be stored for future use.
 - Shelf life would be shortened if the container had ever been opened.
 - Shelf Life (fulfilling above requirements): approximate 1 year
- WARRANTY STATEMENT** Information about Chematco products is given to the best of our knowledge, based on tests and experience. However, as products are often applied or used under conditions beyond our control, Chematco cannot guarantee anything but the quality of the products. Chematco warrants its products meet specifications set by Chematco, but we reserve the right to change given specifications without notice. CHEMATCO DISCLAIMS ALL OTHER WARRANTIES RELATING TO THE PRODUCTS AND THEIR APPLICATION, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Use of Chematco products constitutes acceptance of the terms of this limited warranty and the terms and conditions set out in our invoice, contract and quotation, contrary provisions of buyer purchase documents notwithstanding. In the event Chematco finds that the product delivered is off specification, Chematco will, at its sole discretion, either replace the product or refund the purchase price thereof, and Chematco's choice of remedy is buyer's sole remedy. Chematco will under no circumstances be liable for special, incidental or consequential damages.

Mixing & Storage of Epoxy

Mix the materials according to the mixing ratio (by weight)

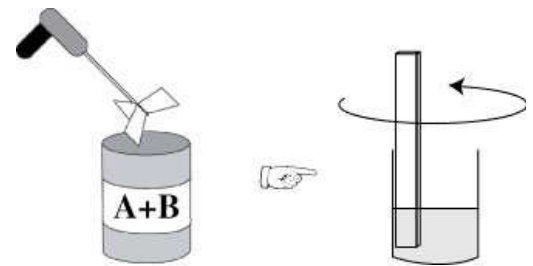
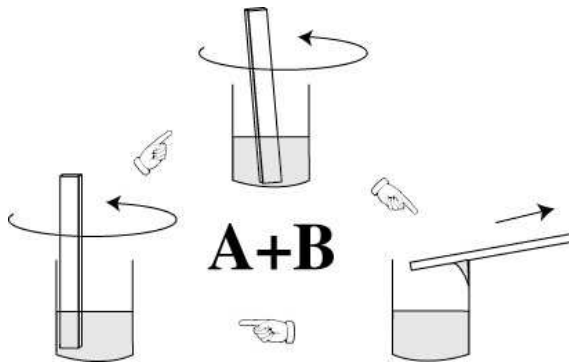
After mixing, curing process will be started.
Calculate the ideal mixing amount according to the designated pot life. ^{P.S.2.}



Empty Part B entirely into the can of Part A

Manual Mixing

Electrical Mixing



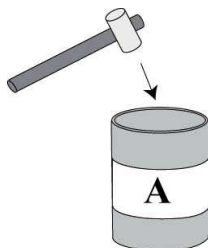
- * Perpendicularly stir with a paint paddle
- * Mix the material thoroughly, including the sediment and material sticking on inner of the can. Repeat thrice
- * Mixing for 2-3 minutes until completely blended

- * Stir with a Jiffy Mixer
- * Scrape the material sticking on the can's inner into the mixed component
- Repeat mixing

- P.S.:**
1. Avoiding produce bubbles during mixing. Bubbles can be reduced by vacuumizing.
 2. Pls. refer to the relevant technical data sheet for particular product's pot life.

Storage

- * Unmixed materials should be gastightly stored



Safety

- * Use only in ventilated area
- * Use fume mask and gloves
- * Wear goggles
- * Use within the pot life or the mixed component will produce severe exotherm

