

## CONATHANE® RN-1000

CONAPOXY RN-1000 is a diluted epoxy potting and casting resin. When CONAPOXY RN-1000 is cured with the curatives listed below, these systems possess low shrinkage, low exotherm, good thermal shock and electrical properties, with a hardness range of 80-90 Shore D.

CONACURE® EA-02 provides	Room temperature cure, low viscosity, pot life of 30 minutes, rigid castings.
CONACURE® EA-028 provides	Limited flexibility, pot life of 30 minutes, low viscosity. Will cure in thin films at room temperature. Very good thermal shock resistance.
CONACURE® EA-87 provides	Limited flexibility, pot life of 90 minutes, low viscosity, EA-87 requires heat to cure in thin films. Less expensive than EA-028.

### TYPICAL PRODUCT CHARACTERISTICS

	CONAPOXY RN-1000 Resin	CONACURE EA-02 Curative	CONACURE EA-028 Curative	CONACURE EA-87 Curative
Color	Clear Amber	Clear Amber	Clear Amber	Light Amber
Specific Gravity @ 25°C	1.144	0.980	1.00	0.960
Viscosity @ 25°C, cps	800	55	40	55

### TYPICAL CURED PROPERTIES

CONAPOXY® RN-1000 CURED WITH:	CONACURE EA-02	CONACURE EA-028	CONACURE EA-87
<b>Physical Properties</b>			
Hardness, Shore D	80	80	88
Tensile Strength, psi	10,000	4,000	7,200
Compressive Strength, psi	15,000	14,000	16,000
Flexural Strength, psi	14,000	6,000	9,000
Linear Shrinkage, %	1.3	1.4	0.8
Glass Transition Temperature, °C	80-85	60-65	70-75
Coefficient of Thermal Expansion, in/in/°C	50-55 x 10 <sup>-6</sup>	50-55 x 10 <sup>-6</sup>	50-55 x 10 <sup>-6</sup>
Thermal Conductivity (cal/sec/cm <sup>2</sup> /°C/cm)	4.5 x 10 <sup>-4</sup>	4.5 x 10 <sup>-4</sup>	4.5 x 10 <sup>-4</sup>

CONAPOXY® RN-1000 CURED WITH:	CONACURE EA-02	CONACURE EA-028	CONACURE EA-87
<b>Electrical Properties</b>			
Dielectric Strength, vpm	350	350	350
Dielectric Constant @ 1 KHz, @ 25°C	3.5	4.7	5.0
Dissipation Factor @ 2 KHz, @ 25°C	0.002	0.015	0.040
Volume Resistivity, ohm-cm @ 25°C	3.0 x 10 <sup>14</sup>	4.0 x 10 <sup>12</sup>	9.0 x 10 <sup>15</sup>
Surface Resistivity, ohms @ 25°C	2.0 x 10 <sup>15</sup>	9.5 x 10 <sup>14</sup>	4.0 x 10 <sup>16</sup>

## RECOMMENDED PROCESSING PROCEDURES

CONAPOXY® RN-1000 CURED WITH:	CONACURE EA-02	CONACURE EA-028	CONACURE EA-87
Mix Ratio by Weight, Resin/Curative	100/11	100/28	100/37
Mixed Viscosity @ 25°C, cps	600	500	250
Specific Gravity @ 25°C	1.128	1.112	1.094
Gel Time @ 25°C	30 minutes	30 minutes	90 minutes
Cure Schedule	24 hours @ 25°C	24 hours @ 25°C	24 hours @ 25°C
Alternate Cure	2 hrs @ 60°C	2 hrs @ 60°C	2 hrs @ 60°C

## STORAGE AND HANDLING

The shelf life of CONAPOXY RN-1000 and the curatives is 18 months from date of manufacture when stored in the original unopened container at temperatures of 65°F-85°F.

**CAUTION:** Avoid contact with skin and eyes. If contact occurs, wash with soap and water. Use only in well-ventilated areas and avoid prolonged or repeated breathing of fumes.

## AVAILABILITY

CONAPOXY RN-1000 is available in quart, gallon, 5-gallon, and 55-gallon containers.

CONACURE curatives are available in pint, quart, gallon, and 5-gallon containers.

An EVALUATION KIT of CONAPOXY RN-1000 and the hardener of your choice is available at a nominal fee.

### CAUTION

Responsible handling of Cytec products requires a thorough preview of safety, health, and environmental issues prior to use. Review the Material Safety Data Sheet(s) for the specific Cytec product(s) and container label information before opening containers. Ensure that employee exposure issues are understood, communicated to all workers, and controls are in place to prevent exposures above Permissible Exposure Limits (P.E.L.'s). Review safety and environmental issues to be certain controls are in place to prevent injury to employees, the community, or the environment, and ensure compliance with all applicable Federal, State, and Local laws and regulations. For assistance in this review process, please call your Cytec representative or our office noted below.

• Email: [custinfo@cytec.com](mailto:custinfo@cytec.com) Worldwide Contact Info: [www.cytec.com/conap](http://www.cytec.com/conap) Tel: 716.372.9650 Fax: 716.372.1594 •