CONAPOXY® RN-1000

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

CONACURE® EA-02 provides — Room temperature cure, low viscosity, pot life of 30 minutes, rigid.

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

(THESE ARE TYPICAL DATA AND ARE NOT MEANT TO SERVE AS SPECIFICATIONS)

	CONAPOXY® RN-1000	CONACURE® EA-02	CONACURE® EA-028	CONACURE® EA-87
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

(THESE ARE TYPICAL DATA AND ARE NOT MEANT TO SERVE AS SPECIFICATIONS)

CONAPOXY® RN-1000 CURED WITH:	CONACURE® EA-02	CONACURE® EA-028	CONACURE® EA-87
PHYSICAL PROPERTIES			
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^{-6}	50-55 x 10^{-6}	50-55 x 10^{-6}
Thermal Conductivity (CAL x CM/SEC x SQcm x °C)	4-5 x 10^{-4}	4-5 x 10^{-4}	4-5 x 10^{-4}
ELECTRICAL PROPERTIES			
Dielectric Strength, vpm	350	350	350
Dielectric Constant @ 1 KHz, 25°C	3.5	4.7	5.0
Dissipation Factor @ 1 KHz, 25°C	0.002	0.015	0.040
Volume Resistivity, ohm-cm @ 25°C	3.0 x 10^{14}	4.0 x 10^{12}	9.0 x 10^{15}
Surface Resistivity, ohms @ 25°C	2.0 x 10^{15}	9.5 x 10^{14}	4.0 x 10^{16}

RECOMMENDED PROCESSING PROCEDURES

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

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STORAGE AND HANDLING

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

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