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♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦

## EPOXY RESIN RBC #2100

RBC #2100 is a two-part epoxy adhesive that sets within five minutes after mixing. It is ideal for applications that require a quick bond. This product exhibits excellent adhesion to glass, wood, and plastics. In addition to traditional packaging, #2100 is available in a pre-measured field kit for quick, on-the-job repairs.

### HANDLING PROPERTIES:

Mixed Viscosity @ 25°C, cps	14,000
Shelf Life, (Closed Container @ 25°C)	12 Months

### PHYSICAL PROPERTIES (CURED):

Color	Light amber
Specific Gravity @ 25°C	1.21
Hardness, Shore D	78
Linear Shrinkage, in./in.	0.012
Moisture Absorption 10 Days @ 25°C, %	0.65
Izod Impact Strength, ft. lbs./in. of notch	0.60
Bond Shear Strength, psi, Al/Al @ 25°C	2,000
Tensile Strength @ 25°C, psi	2,800
Compressive Strength @ 25°C, psi	15,000

### THERMAL PROPERTIES (CURED):

Thermal Conductivity, cal/sec/cm <sup>2</sup> /°C/cm X 10 <sup>-4</sup>	5.1
Thermal Stability, 1000 Hrs. @ 175°C, % Wt. Loss	1.30
Coefficient of Thermal Expansion, in./in./°C X 10 <sup>-6</sup>	53
Heat Distortion Temperature, °C	60
Operating Temperature Range, °C	-55 to 120

### ELECTRICAL PROPERTIES (CURED):

Volume Resistivity @ 25°C, ohm-cm	5x10 <sup>14</sup>
Dielectric Strength, volts/mil	380
Dielectric Constant @ 25°C, 100 KC	3.4
Dissipation Factor @ 25°C, 100 KC	0.018

**MIXING INSTRUCTIONS:** Mix one part #2100 Resin with one part #2100 Hardener by weight and mix thoroughly by hand for at least two minutes, or machine mix for at least one minute. Be sure mixture is homogeneous to insure maximum bonding strengths. Whenever necessary, entrapped air may be removed by vacuum prior to use.

Mix Ratio of Resin to Hardener (by weight)	1 to 1
Pot Life (100 grams @ 25°)	3 mins.
Cure Schedule	5 mins. @ 25 deg C