

## Infinity Bond EP 270 Epoxy Potting Compound

### **1. DESCRIPTION:**

EP 270 is a two-part, unfilled, electronic grade, room temperature cure, epoxy encapsulant designed for small to medium castings. It cures quickly at room temperature to a tough, semi-rigid polymer. It has good wetting and adhesion to most surfaces and is free flowing to penetrate voids and give good air release. It has very good resistance to water, acids and bases and most organic solvents. It is especially formulated for a 1:1 mix ratio for use in side by side cartridges, or to be used by hand mixing, or use with Meter Mix Equipment. EP 270 will reach full cure at room temperature within 24 hours. EP 270 comes in clear and black.

### **2. CHARACTERISTICS:**

#### **Room Temperature Cure Properties**

Work Time:	20 to 30 minutes (at 75°F/ 24°C)
Fixture Time:	60 to 90 minutes (at 75°F/ 24°C)
Full Cure:	2 hours movement; 24 hours for full properties
Mixed Density:	9.5 lbs/gal (1.15 g/cc)
Flash Point:	Greater than 200°C (392°F)
Viscosity:	Resin (Part A) 12,000 CPS Hard (Part B) 8,000 CPS Mixed 10,000 CPS
Color:	Resin (Part A) Clear or Black Activator (Part B) Clear Mixed: Clear or Black
Mix Ratio:	1 Part A to 1 Part B (1:1)
Hardness:	80 Shore D
Dielectric Constant	3.5 (25°C, 100HZ)
Dielectric Strength	410 v/mil
Volume Resistivity	$8.3 \times 10^{14}$ ohm-cm
Temperature Range	-40°C to 150°C
Tensile Strength:	> 2,500 PSI (AL to AL)
Tensile Strength	7,500 PSI
Elongation:	4 %
Shelf Life:	12 Months
VOC Content:	0% by weight

### **3. Handling and Storage:**

- A. Bring both components to room temperature prior to mixing. Mix 1 part A to 1 part B by volume thoroughly for 30 seconds minutes. If mixing by weight, mix 100 parts of Resin (A part) to 85 parts of Activator (B part).
- B. Dispense mixed material over properly positioned devices to be glued together.
- C. Parts may be shipped within 24 hours but parts can be moved in 2 hours.

### **4. ADDITIONAL INFORMATION**

NOTE: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. The Company shall not be liable for any injury, loss, or damage in the use or handling of its chemical products since conditions and use are beyond our control. In every case, we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and suitability for their particular purpose under their own operating conditions. Statements concerning possible use of our products are not intended as recommendations to use our products in the infringement of any patent, or for any particular purpose or application. These products are intended for industrial use only.