

BD54270 Epoxy

1. DESCRIPTION:

BD54270 is a two-part, unfilled electronic grade epoxy encapsulant designed for small to medium sized castings. It cures quickly at room temperature to a tough, semi-rigid polymer. It has good wetting and adhesion to most surfaces. It gives good resistance to water, salt spray, inorganic 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.

BD54270 will reach a full cure at room temperature within 24 hours. To accelerate the final cure, or to quicken the handling simply elevate the temperature.

2. CHARACTERISTICS:

Room Temperature Cure Properties

Work Time:	60 minutes (at 75°F/ 24°C)
Mass:	100 Grams
Fixture Time:	180 to 360 minutes
Full Cure:	24 hours for full properties
Operating Temp.	-40°F(-40°C) to 266°F (130°C)
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 Activator (Part B) Clear Mixed: Clear
Mix Ratio:	1 Part A to 1 Part B (1:1)
Hardness:	80 Shore D
Tensile Strength:	7,500 PSI
Elongation:	4%
Water Absorption:	< 1% (24 hours)
Dielectric Constant	3.5 (at 25C, 100Hz)
Dielectric Strength	410 v/mil
Volume Resistivity	8.3 x 10 ¹⁴ ohm-cm
Temperature Range	-40 to 150 C
Shelf Life:	12 Months
VOC Content:	0% by weight

3. Handling and Storage:

- Bring both components to room temperature prior to mixing.
- Mix 1 part A to 1 part B thoroughly for 30 to 60 seconds scraping sides of container often.
- Allow to cure undisturbed

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.