

## BD54750 Epoxy Adhesive

### 1. DESCRIPTION:

BD54750 is a low viscosity polyamine epoxy product. The BD54750 is designed for metals and plastics bonding. This product is ideal for highway and bridge deck repairs, potting, casting, and encapsulation, floor systems, linings of tanks and pipes, and coatings. This product has good chemical, corrosion, and water resistance. 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.

A handling cure is normally achieved at room temperature within 4 hours with a full cure at room temperature within 48 hours. To accelerate the final cure, or to quicken the handling simply elevate the temperature.

### 2. CHARACTERISTICS:

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

Work Time:	120 minutes (at 75°F/ 24°C)
Fixture Time:	4 hours (at 75°F/ 24°C)
Full Cure:	48 hours for full properties
Operating Temp.	-60°F(-76°C ) to 302°F (150°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) 12,000 CPS
Color:	Resin (Part A) Amber Activator (Part B) Amber Mixed: Amber
Mix Ratio:	1 Part A to 1 Part B (1:1)
Heat Distortion Temp.	150°C(302°F )
Hardness:	82 Shore D
Flex Strength, Ultimate	11,100 PSI
Comp Strength, Ultimate	17,000 PSI
Comp Strength, Yield	9,600 PSI
Tensile Strength:	7,500 PSI
Elongation:	7.5%
Impact Resistance:	> 150 inch/lb
Water Absorption:	< .25% (24 hours)
Dielectric Constant	3.5 (at 25C, 100Hz)
Dielectric Strength	440 v/mil
Volume Resistivity	8 x 10 <sup>14</sup> ohm-cm
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 or 55 grams part A to 45 grams part B by weight thoroughly for several minutes.
- B. Dispense mixed material over properly positioned devices to be glued together.
- C. Parts may be shipped within 48 hours but parts can be moved in 4 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.