

BD5030 Epoxy Adhesive

1. DESCRIPTION:

BD5030 is a two-part, unfilled, room temperature or elevated temperature cure epoxy adhesive. Designed for high toughness, this product also has excellent thermal shock resistance and good electrical properties up to 60°C. It is formulated for a 2:1 mix ratio for use in side by side cartridges, hand mixing, or use with meter mix equipment.

Application Areas:

- Structural adhesives
- Potting and encapsulation
- Composite binders

2. CHARACTERISTICS:

Room Temperature Cure Properties

Work Time:	25 minutes
Full Cure:	7 days
Operating Temp:	-40°C to 60°C
Mixed Density:	9.4 lbs/gal
Flash Point:	Greater than 200°F
Viscosity:	Resin 11,000 CPS Hardener: 5,000 CPS
Color:	Resin (Part A) Clear Hardener (Part B) Clear Mixed: Clear to slight amber
Mix Ratio:	2 Part A to 1 Part B by volume
Hardness:	70
Flexural Strength:	13,100 PSI
Flexural Modulus:	391K PSI
Tensile Strength:	8,880 PSI
Heat Distortion Temp:	66°C
Izod Impact:	1.53 ft/lb /in
Gardner Impact:	130 in/lb (6mil film)
Arc Resistance:	110 seconds
Dielectric Strength (volts/mil):	496 S/T @ 23°C 462 S/S @ 23°C 517 S/T @ 60°C 439 S/S @ 60°C
Dielectric Constant:	4.99 (23°C, 60 cycles) 4.94 (23°C, 103 cycles) 3.9 (23°C, 106 cycles) 5.12 (60°C, 60 cycles) 5.08 (60°C, 103 cycles) 4.44 (60°C, 106 cycles)

3. Handling and Storage:

Bring both components to room temperature prior to mixing. Mix 2 parts A to 1 part B thoroughly for 30 to 60 seconds. Dispense mixed material over properly positioned devices. Do not pour more than 1/2" thick as the product may exotherm too high and may boil.

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.