

Product Description

EP 460NS is a two-part, non-sag, epoxy hybrid room temperature cure adhesive designed for industrial bonding, small potting and laminating where excellent strength and toughness, structural bonding, and mechanical and electrical properties are required. This 2-part adhesive cures at room temperature, exhibits good wetting, and develops high strength, low shrink bonds to most materials including fiberglass, ceramics, metals and many plastics. It has great dimensional stability over a wide range of temperatures. Fully cured EP 460NS is a durable electrical insulator with resistance to water, weather, ozone and oxygen, various solvents, fuels, oils, alcohols, mild acids and alkalis and many other organic compounds including diesel fuel and gasoline. It is especially formulated for a 2:1 mix ratio for use in side by side cartridges, or to be used by hand mixing, or use with Meter Mix Equipment.

Typical Handling Properties

Work Time:	50 to 60 minutes (at 75°F/ 24°C)
Fixture Time:	2 to 4 hours (at 75°F/ 24°C)
Full Cure:	24 to 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) 200,000 CPS Hard (Part B) 20,000 CPS
Color:	Resin (Part A) Off-White or Black Activator (Part B) Amber Mixed: Off-White
Mix Ratio:	2 Part A to 1 Part B (2:1)
Hardness:	78 - 84 Shore D
Lap Shear Strength:	> 4,800 PSI (AL to AL)
Tensile Strength:	6,600 PSI
Elongation:	2.5%
Impact Resistance:	> 150 inch/lb
Water Absorption:	< 1% (24 hours)
Dielectric Constant	4.5 (at 25C, 100Hz)
Dielectric Strength	727 v/mil
Volume Resistivity	3.25 x 10 ¹⁴ ohm-cm
Shelf Life:	12 Months
VOC Content:	0% by weight

For Industrial Use Only

- A. Bring both components to room temperature prior to mixing. Mix 2 parts A to 1 part B by volume or 213 grams part a to 100 grams part B by weight thoroughly for 30 to 60 seconds.
- 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.

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.