



TECHNICAL DATA SHEET

Noelle Industries, Inc.
Adhesives • Coatings • Conductives • Encapsulants

NOELLE 808-49 System

A Two Component Transparent Silicone Self-Priming Adhesive / Sealant or Encapsulant

Description:

Noelle 808-49 System is a transparent, two component, (A + B), high performance, silicone, adhesive / sealant. Noelle 808-49 System is a convenient to use, 1:1 mix ratio, 100% solids, addition cure silicone elastomer.

Advantages:

Noelle 808-49 mixed system features a low mixed viscosity and long pot life for ease of use in specific applications. This mixed system remains stable over a wide range of temperatures and has excellent dielectric properties. Noelle 808-49 offers excellent adhesion to a wide variety of substrates and requires no priming. This material is used in bonding, potting or encapsulating electrical/electronic devices.

Applications:

Low viscosity Noelle 808-49 is best suited for potting application that requires optical clarity and excellent adhesion. Noelle 808-49 is used to encapsulate LEDs, pot relay switches and connectors. Noelle 808-49 offers excellent adhesion to a wide variety of substrates such as bonding clear plastics or glass, metal to metal and metal to plastic. Noelle 808-49 is also used for sensor potting/encapsulating, and insulation for high voltage circuits.

Physical Properties:

	<u>Resin</u>	<u>Hardener</u>
	808-49A	808-49B
Color:	Clear	Clear
Mix Ratio		
(By Volume)	1.0	1.0
(By Weight)	100.0	100.0

Shelf Life: (Sealed containers)

One year (See Handling for storage). Hand agitation of the both components is recommended after long standing to insure best results.

Cure Schedules:

Cure Temp:			
100°C (212°F)	120°C (248°F)	150°C (302°F)	
Cure Time:			
120 minutes	60 minutes	30 minutes	

Cured Properties:

Shore Hardness, measured @ 25°C	>20A
Volume Resistivity, Ohm/cm @ 25°C:	1 x 10 ¹⁴
Dielectric Constant @ 1 MHz @ 25°C:	2.85
Dielectric Strength, volts/mil	325
Dissipation Factor @ 1 MHz @ 25°C:	7 x 10 ⁻⁴
Operating Temperature Range:	-45°C to +200°C

Instructions:

Combine the Resin and the Hardener in the ratio listed above. Mix by hand or mechanical mixer until material is uniform in appearance.

Storage and Handling:

Normal storage and handling is at room temperature for the A component. **The B component should be refrigerated below 50°F.** Allow the B component to reach ambient temperature before opening. Use standard mixing and housekeeping procedures to minimize the risk of spills and contact with the surrounding materials.

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.

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