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

TECHNICAL DATA SHEET

NOELLE 807-80 System

A Two Component Potting Compound

Description:

Noelle 807-80 System is a two component (A + B) high performance room temperature curing, mineral filled potting compound and epoxy encapsulant. For maximum effectiveness a post cure of 100°C is required.

Advantages:

Noelle 807-80 mixed system features a moderate set up time. Noelle 807-80 has excellent adhesion to a wide variety of substrates. This material has excellent electrical properties. This is a versatile resin base system that can be cured with various curing agents to produce excellent cured properties (Other hardeners are available upon request). Noelle 807-80 is also available as a Flame Retardant Potting Compound.

Physical Properties:

	Resin	Hardener
	807-80A	807-80B
Color:	Black	Clear
Specific Gravity:	1.59	0.98
Mixed 807-80 A + B	1.52	
Mix Ratio		
(By Weight):	100	8
(By Volume):	7.7	1

Shelf Life: (Sealed containers)
One Year @ 25°C (both A+B). Hand agitation of the Rein component is recommended after long standing to insure best results.

Instructions:

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

Cure Schedules:

Overnight or 16 hours @ 25°C will yield 80% of the systems full potential. A post cure of 100°C for 2–4 hours is required for maximum properties.

% Full Cure:	80%	100% **or**	100%
Cure Temperature:	25°C	25°C	100°C
Cure Time (hours):	16	24	4

Pot Life(100 grams) @ 25°C = 45 minutes

Cured Properties:

Shore Hardness, measured @ 25°C:	88D
Volume Resistivity, @ 25°C (Ohm/cm):	1×10^{15}
Lap Shear, Tensile Strength	
Al/Al ASTM D-1002 (psi):	>6200
Dielectric Strength @ 25°C (VPM):	465
Operating Temperature Range:	-40°C to +130°C

Storage and Handling:

Normal storage and handling is at room temperature. 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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