



TECHNICAL DATA SHEET

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

NOELLE 807-30 System A Two Component Epoxy Insulating Coating Compound

Description:

Noelle 807-30 System is a Beige two component (A + B) high performance, room temperature curing, epoxy insulating coating compound.

Advantages:

Noelle 807-30 is designed to yield moderate set up times along with a putty like consistency for ease of application. Noelle 807-30 is a thickened material to assist in non-sag properties and is capable of curing in the vertical position. Noelle 807-30 is machineable with standard metal working tools. Noelle 807-30 has good chemical resistance.

Physical Properties:

	<u>Resin</u>	<u>Hardener</u>
	807-30A	807-30B
Color:	Clear	Beige
Specific Gravity:	1.22	1.50
Mix Ratio		
(By Volume):	5.0	4.0
(By Weight):	100.0	100.0

Shelf Life: (Sealed containers)

One Year @ 25°C (both A+B). Hand agitation of both (A + B) component is recommended after long standing to insure best results.

Thermal Properties:

Thermal Conductivity, @ 121°C (BTU ft/ft ² -Hr-°F)	0.30
	(Watt/meter °K) 0.51
CTE,	(in/in °C X10-5) 4.1
HDT	@ 25 °C 72
Operating Temperature Range (°C):	-20 to +100

Instructions:

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

Electrical Properties:

Volume Resistivity @ 25°C Ohm-cm	2.00 x 10 ¹⁵
Dielectric Strength Volts/mil	435
Dielectric Constant @ 25°C 60 Hz	3.45
Dissipation Factor @ 25°C 60 Hz	0.02

Cure Schedules:

16 hours @ 25°C (77°F) will yield 80% of the systems full potential. An additional 96 hours @ 25°C (77°F) will yield the systems full potential.

% Full Cure:	80%	100%
Cure Temperature:	25°C	25°C
Cure Time (hours):	16	112

Pot Life (40 grams) @ 25°C = 30 min

Cured Properties: (Physicals)

(All Values measured @ 25°C)

Shore Hardness, measured:	>84D
Color:	Beige
Specific Gravity of System:	1.35
Shrinkage, (inch/inch):	<0.012
Moisture pickup:	<0.30%
Compressive Strength, (psi):	>10,000
Tensile Strength, (psi):	>8,000

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.

• 76 Treble Cove Road, Building # 3, Unit C, North Billerica, MA 01862

• Phone: (978) 439-9841 • Fax: (978) 439-9842 • Website: www.noelleindustries.com • email: info@noelleindustries.com