



# TECHNICAL DATA SHEET

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

## NOELLE 808-13 System

### A Two Component Urethane Potting Compound

#### **Description:**

Noelle 808-13 System is a two components, high performance, flexible, room temperature, oxide filled, urethane potting compound.

#### **Advantages:**

Noelle 808-13 System features flame retardant properties along with electrical grade properties, thermal conductivity and low thermal expansion. Noelle 808-13 mixed system features a moderate set up time at temperatures above 20°C.

#### **Applications:**

Noelle 808-13 System is widely used in potting or encapsulating of electrical components and modules used in the telecommunication industry.

#### **Physical Properties:**

	<b><u>Curative</u></b>	<b><u>Pre-polymer</u></b>
	808-13A	808-13B
Color:	Light Amber	Black
Specific Gravity:	1.02	1.42
Mix Ratio		
(By Weight)	15.0	85.0

#### **Shelf Life:** (Sealed containers)

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

#### **Instructions:**

Combine the Curative and pre-polymer 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. Use standard mixing and housekeeping procedures to minimize the risk of spills and contact with individuals and the surrounding materials. The required storage temperature is 20 to 30°C. Upon opening and using the individual components wipe the rim of the containers and blanket each component with dry air or nitrogen. Reseal containers immediately after blanketing. This is a recommended procedure after each use

#### **Cure Schedules:**

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

% Full Cure:	80%	100% <b>or</b>	100%
Cure Temperature:	25°C	25°C	80°C
Cure Time (hours):	16	96	4

**Pot Life** (100 grams) @ 25°C = >120 Minutes

#### **Cured Properties:**

Shore Hardness, measured @ 25°C:	>75A
Tensile Strength, ASTM D638 (psi):	>1400
Coefficient of Linear Thermal Expansion, (in/in°C):	1.55 x 10 <sup>-5</sup>
Thermal Conductivity, (Btu)(in) / (hr)(ft <sup>2</sup> )(°F):	3.00
For maximum properties <i>Cure for additional 2 hours @ 100°C</i>	
Linear Shrinkage:	<2.0%.

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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