



# TECHNICAL DATA SHEET

**Noelle Industries, Inc.**

Adhesives • Coatings • Conductives • Encapsulants

## NOELLE 807-70

### A Self Contained Two Component Aluminum Epoxy Putty Stick

#### **Description:**

Noelle 807-70 is a self contained two component, gray, hand kneadable, non-rusting, aluminum reinforced epoxy putty that mixes in <one minute to provide fast, permanent repairs to aluminum parts. The curing agent is encapsulated in the epoxy stick and becomes activated when hand kneaded and will set up in ~ five minute. After one hour Noelle 807-70 epoxy stick can be drilled, sawed, filed, carved, sanded, stained or painted. It is recommended where a non-rusting, metallic finish is required.

#### **Advantages:**

Noelle 807-70 will cure at room temperature and features excellent chemical, heat and moisture resistance. The putty like consistency eliminates drips and runs providing a no mess application and handling, with no tools required for use. Noelle 807-70 can be used to repair of aluminum gutters, storm doors, windows, pipes, tanks, tools, and other equipment; repair of stripped threads or to hold nuts and bolts in place; repair of blowholes or punctures in metal; holding and placement of fixtures and signs; repairs to molds, patterns and castings; repairs to ductwork aluminum siding, boats, RVs and countless other uses.

#### **Physical Properties:**

Color: Gray

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

Two Years @ 25°C

#### **Cure Schedules:**

2 hours @ 25°C (77°F) will yield 80% of the systems full potential. An additional 22 hours @ 25°C (77°F) will yield the systems full potential).

	80%	100%
Cure Temp:	25°C	25°C
Cure Time:	2 hrs	24 hrs

#### **Cured Properties:**

Shore Hardness, measured @ 25°C:	85D
Volume Resistivity, Ohm/cm @ 25°C:	1.0 x 10 <sup>14</sup>
Ohm/cm @ 130°C:	4.0 x 10 <sup>10</sup>
Lap Shear, Tensile Strength	
Al/Al ASTM D-1002:	>600 psi.
304SS/304SS ASTM D-1002	>500 psi
Coefficient of Linear Thermal Expansion (in/in°C):	60 x 10 <sup>-6</sup>
Dielectric Strength VPM @ 25°C:	300
@ 180°C	8.9 x 10 <sup>7</sup> Pa
Compressive Strength:	>12,000 psi
Flexural Strength:	>6,200 psi
Operating Temperature Range:	0°C to +100°C
Cured Shrinkage:	0.5 in/in

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](http://www.noelleindustries.com) • email: [info@noelleindustries.com](mailto:info@noelleindustries.com)