



# TECHNICAL DATA SHEET

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

## NOELLE 808-72 System

### A Two Component Transparent Silicone Dielectric Gel

#### Description:

Noelle 808-72 System is a soft, transparent, two component (A + B) high performance, thickened, fast room temperature curing, silicone dielectric gel adhesive. Noelle 808-72 System is designed for use in applications that requires a flexible, shock resistant, and cushion coat material for sensitive or fragile components or fine electrical wires.

#### Advantages:

Noelle 808-72 mixed system features a medium mixed viscosity for ease of use in specific applications, also features excellent air release properties. This mixed system does not harden appreciably with age as does many other commercially available materials of this type. Noelle 808-72 offers excellent adhesion to a wide variety of substrates and has a fast working life along with good electrical properties.

#### Physical Properties:

|             | <u>Resin</u> | <u>Hardener</u> |
|-------------|--------------|-----------------|
|             | 808-72A      | 808-72B         |
| Color:      | Clear        | Clear           |
| Mix Ratio   |              |                 |
| (By Volume) | 1.0          | 1.0             |
| (By Weight) | 100.0        | 100.0           |

#### Shelf Life: (Sealed containers)

Three months @ 25°C (both A+B) Hand agitation of the Resin 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:

|            |                |                 |                 |                 |
|------------|----------------|-----------------|-----------------|-----------------|
| Cure Temp: | 25°C<br>(78°F) | 43°C<br>(110°F) | 66°C<br>(150°F) | 93°C<br>(200°F) |
| Cure Time: | 1 day          | 4 hours         | 2 hours         | 30 minutes      |

#### Cured Properties:

|                                     |                      |
|-------------------------------------|----------------------|
| Shore Hardness, measured @ 25°C     | >20A                 |
| Volume Resistivity, Ohm/cm @ 25°C:  | 7 x 10 <sup>15</sup> |
| Dielectric Constant @ 1 MHz @ 25°C: | 2.85                 |
| Dielectric Strength, volts/mil      | 390                  |
| Dissipation Factor @ 1 MHz @ 25°C:  | 0.002                |
| Operating Temperature Range:        | -45°C to +150°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 material.

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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