

# GEL8-8150

## Fast cure, dielectric silicone gel

### DESCRIPTION

- High purity, optically clear, firm silicone gel
- Two components blend easily in a convenient 1:1 ratio by weight or volume

### APPLICATION

- For potting, encapsulating, backfilling, and dampening applications requiring a firm gel with optical clarity

### PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
<b>Uncured:</b>				
Appearance	Clear	-	ASTM D2090	002
Viscosity, Mixed	500 cP	500 mPas	ASTM D1084, D2196	001
Specific Gravity	0.97	-	ASTM D891	022
Work Time	1.5 hours	-	-	008
<b>Cured: 30 min at 100°C (212°F)</b>				
Penetration*	4 mm	-	ASTM DC-CTM 813	017

\*GCA Precision Penetrometer, 19.5 gram shaft, 1 inch diameter, 5 seconds.

## INSTRUCTIONS FOR USE

### Mixing

Thoroughly mix Part A with Part B in a 1:1 mix ratio by weight or volume. Increase the ratio of Part A to Part B in the initial mix for a softer gel (high penetration value) and increase the ratio of Part B to Part A for a firmer gel (lower penetration value). Deviations from the 1:1 mix ratio may change cure rates. Airless mixing, metering and dispensing equipment is recommended for production processing.

### Vacuum Deaeration

Removed air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches Hg, to a container rated for use and of volume at least four times that of material being deaerated. Hold vacuum until presence of air is no longer evident.

### Substrate Consideration

Cures in contact with most materials, exceptions include: butyl and chlorinated rubber, some RTV silicones and unreacted residues of curing agents used with a few types of plastics.

Note: Some bonding application may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

### Adjustable Cure Schedule

Product cures at room temperature and a wide range of elevated temperatures and cure times to accommodate different production needs. [Contact](#) NuSil Technology for details.

## SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

## WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims all

### Packaging

2 Pint Kit (910 g)  
2 Gallon Kit (7.28 kg)  
10 Gallon Kit (36.4 kg)

### Warranty

12 Months

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