

# Structural Glazing Sealant

## SEALANT-90N

SEALANT-90N is a one-part, neutral-curing and non-corrosive silicone sealant. Once cured, this sealant becomes a high modulus and flexible silicone rubber suitable for structural and weatherseal applications. This sealant contributes to the superior design and high reliability of buildings.

### 1 Features

- One-part and neutral-cure RTV\* silicone sealant
  - Superior weatherability performance when exposed to a wide range of temperatures, moisture, ozone, and ultraviolet rays
  - Excellent storage stability within a wide range of temperatures
  - Excellent unprimed adhesion to most common building materials and easy-to-use in a wide range of temperatures
  - ±50% Joint Movement Capability of the original joint width
- \* RTV stands for "room temperature vulcanizing" which means that this material can be cured at room temperature.



Package image

### 2 Applications

Structural glazing, weather sealing and bonding of cladding stiffener and aluminium panels.

### 3 Specifications

- UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials
- ASTM C1184\*1
- ASTM C920\*2 Type S, Grade NS, Class 50, Use NT, G, A
- KS F 4910\*3 G-25HM

\*1 Standard Specification for Structural Silicone Sealants  
 \*2 Standard Specification for Elastomeric Joint Sealants  
 \*3 Sealants for sealing and glazing in buildings

### 4 Colors

Black, Gray, Light gray

### 5 Packaging

300 mL cartridges (25 pcs/carton box)  
 600 mL sausages (20 pcs/carton box)

### 6 General properties

Parameter	Product name	SEALANT-90N
Consistency		Paste
Slump	mm	0
Skin-Over Time at 23°C/50%RH	min	10
Density at 25°C	g/cm <sup>3</sup>	1.4
VOC Content*	g/L	30
After cured - After 7 days at 23°C/50%RH	Reference Test	
Hardness Shore A	ASTM D2240	36
Tensile strength	ASTM D412	2.4
Elongation at break		560
After cured - After 21 days at 23°C/50%RH	Reference Test	
50% Tensile stress	ASTM C1135	0.6
Maximum tensile stress		1.5
Joint movement capability	ASTM C719	±50

\* Based on SCAQMD, Reported Volatile Organic Compound (VOC) content was expressed as grams of volatile organic compounds per litre of submitted sample. (Not specified values)



## 7 Instructions for use & Handling precautions

Please read the latest Shin-Etsu published Functional Sealants Technical Manual. The manual can be obtained from the Shin-Etsu website.

<http://www.shinetsusilicone-global.com/>

## 8 Important

1) Please insure that application procedures and quality control are in strict compliance with the latest Shin-Etsu published Functional Sealants Technical Manual. Before applying sealant, applicators are required to obtain the manual from the Shin-Etsu website.

<http://www.shinetsusilicone-global.com/>

2) All quality control test results must be logged and archived.

3) The Shin-Etsu Sales Department is available for specific advise.

## 9 Limitations

1) SEALANT-90N must not be used in any structural glazing applications without pre-testing.

2) SEALANT-90N is suitable for applications to mill finished applications limited to cladding stiffeners and aluminium panels only and pre-testing must be required prior to the commencement of any such applications. It remains unsuitable for and must not be used on any other mill finished applications without written approval from Shin-Etsu Silicone.

3) SEALANT-90N must not be used in food, medical or pharmaceutical applications.

4) The contents of this catalog are believed to be correct, but project conditions regarding actual application and use of Shin-Etsu sealant are beyond Shin-Etsu's control. Therefore it is the users responsibility to confirm the product meets the requirements of the application.

5) Shin-Etsu warrants only the sealant will confirm to Shin-Etsu's product specifications at the time of shipment, and makes no

further warranties in respect of the sealant. Warranty remedy for such failure is limited to refund of purchase price or replacement of product. If applicators need extended warranty for performance of sealants, please contact the Shin-Etsu Sales Department in advance of the project inception.

## 10 Storage conditions

Temperature: at or below 30°C

\* Seal container tightly and store in a cool, dark place (out of direct sunlight) with good ventilation. Keep away from heat and flame.

## 11 Shelf life

12 months after production date under the above storage conditions in the original unopened container

## 12 Safety and hygiene

1) Uncured SEALANT-90N may cause skin irritation. When handling the products, take care to avoid contact with the skin and mucous membranes by wearing protective glasses and protective gloves. In case of skin contact, immediately wipe off with dry cloth and then flush thoroughly with running water. When using, be careful not to rub eyes with hands. In case of accidental eye contact, flush immediately with plenty of clean water for at least 15 minutes and then seek medical attention. Contact lens wearers must take special care. If the products get into the eye, the contact lens may become stuck to the eye.

2) Be sure to provide adequate ventilation when using the product. During curing, a small amount of Methanol gas is gradually generated. If you become uncomfortable with inhaling vapors, move to an area with fresh air immediately.

3) Keep out of reach of children.

4) Please read the Safety Data Sheets (SDS) before use. SDS can be obtained from our Sales Department.



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