

Shin-Etsu Green Silicones™  
SHIN-ETSU SEGS™

# SEALANT-N-SEGS

## Eco-friendly Silicone Sealant



SEALANT-N-SEGS is an environmentally friendly silicone sealant for construction. Through the combined use of low carbon footprint raw materials and carbon credit methods, we have achieved zero CO<sub>2</sub> emissions in the manufacturing process. It helps reduce the amount of CO<sub>2</sub> emissions classified as Scope 3 during building construction.

### 1 Features and Benefits

- 1) This environmentally friendly silicone sealant is a carbon neutral product that has been certified by ISO 14067:2018 and the Thailand Greenhouse Gas Management Organization (TGO).
- 2) This is a one-component oxime type silicone sealant.
- 3) It has high resistance to heat, moisture, ozone, UV rays, etc. and exhibits excellent weather resistance.
- 4) When used in combination with a primer, it adheres well to most materials.
- 5) It complies with ASTM C920 Type S, Grade NS, Class 25.
- 6) It is equivalent to JIS A 5758 G-20LM-9030G (SR-1), G-30SLM-9030G (SR-1).

### 2 Applications

Construction sealants for joints around glass and metal and various interiors, etc.

### 3 General Properties

Parameter		Product name	SEALANT-N-SEGS
Before curing	Appearance		Paste
	Liquidity		None
	Tack-free time    23°C/50%RH    min		5
After curing※	Appearance		Rubber elastic body
	Density at 23°C                      g/cm <sup>3</sup>		1.04
	Hardness                      Durometer A		19
	Elongation at break                      %		630
	Tensile strength                      MPa		1.4

※ After 7 days at 23°C/50% RH.  
Test results according to JIS K 6249

(Not specified values)

### 4 Color Types

White, Clear, Black, Light gray, Gray

### 5 Storage Conditions

Store unopened in a cool, dark place away from direct sunlight.

## 6 Storage and Handling Precautions

- 1) This product reacts with moisture in the air and begins to cure at the surface. Consequently, the cure speed will vary according to the temperature and humidity of the use environment.
- 2) With cartridges, as a general rule it is best to completely use up the product once the cartridge has been opened. If any remains, be sure to seal completely.
- 3) Paint will not adhere to the cured sealant surface.
- 4) Please note the following points during application.
  - 4-1) Please avoid applying the sealants in low temperatures, high humidity, or enclosed environments as this may cause delayed curing or poor adhesion.
  - 4-2) Before applying, thoroughly remove any moisture, oil, dirt, etc. from the application area. The solvents to be used should be as follows:
    - A. General base materials: toluene, xylene, alcohol, etc.
    - B. Plastics (acrylic, etc.): paraffin-based solvents such as n-hexane
  - 4-3) We recommend using a primer suitable for each type of substrate.
  - 4-4) Please do not use on frameless glass aquariums.
  - 4-5) If silicone sealant is used on exterior wall joints such as stone joints, tiles, enamel, or painted panels, the area around the joints may become dirty. Please check before use.
  - 4-6) Please use polyethylene backing material. (Some rubbers, such as EPT and chloroprene, can discolor silicone sealant or cause poor adhesion when in contact with it. Please check compatibility.)
  - 4-7) Please do not use for SSG (Structural Sealant Glazing) applications.
  - 4-8) Oxime gas generated during curing may corrode copper-based metals, so please conduct a sample test in advance to confirm suitability for the application.
  - 4-9) Please note that if the cured sealant is subjected to continuous compression deformation, silicone oil may bleed out onto the surface.
- 5) Regarding application tools
  - 5-1) After use, please clean, rinse and condition immediately.
  - 5-2) When using an air gun, please use an air pressure of 0.3 MPa or less.

## 7 Safety and Hygiene

- 1) Uncured sealants 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) During curing, a small amount of Methyl Ethyl Ketone Oxime (MEKO) gas is gradually generated from this product. When using, ensure adequate ventilation to avoid inhaling gases generated during curing and primer vapors. If you become uncomfortable with inhaling vapors, move to an area with fresh air immediately.
- 3) Keep out of reach of children.
- 4) Be sure to read the Safety Data Sheets (SDS) for these products before use. SDS are available from the Shin-Etsu Silicone website. If the SDS is not listed on the website, please contact the sales department. SDS download URL : <https://www.shinetsusilicone-global.com/support/sdstds>

## 8 Packaging

300mL (poly cartridge), 25 pcs / box

## 9 UN Number

N / A

- The data and information presented in this catalog may not be relied upon to represent standard values. Shin-Etsu reserves the right to change such data and information, in whole or in part, in this catalog, including product performance standards and specifications without notice.
- Users are solely responsible for making preliminary tests to determine the suitability of products for their intended use. Statements concerning possible or suggested uses made herein may not be relied upon, or be construed, as a guaranty of no patent infringement.
- For detailed information regarding safety, please refer to the Safety Data Sheet (SDS). Please download the SDS from our website. If the SDS is not listed on the website, please contact the sales department. SDS download URL : <https://www.shinetsusilicone-global.com/support/sdstds>
- The silicone products described herein have been designed, manufactured and developed solely for general industrial use only; such silicone products are not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes.

Users have the sole responsibility and obligation to determine the suitability of the silicone products described herein for any application, to make preliminary tests, and to confirm the safety of such products for their use.

- Users must never use the silicone products described herein for the purpose of implantation into the human body and/or injection into humans.
- Users are solely responsible for exporting or importing the silicone products described herein, and complying with all applicable laws, regulations, and rules relating to the use of such products. Shin-Etsu recommends checking each pertinent country's laws, regulations, and rules in advance, when exporting or importing, and before using the products.
- Please contact Shin-Etsu before reproducing any part of this catalog. Copyright belongs to Shin-Etsu Chemical Co., Ltd.

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

**Shin-Etsu Chemical Co.,Ltd.**

Marunouchi Eiraku Bldg., 4-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-0005, Japan

Silicone Division Sales and Marketing Department IV  
Phone : +81-(0)3-6812-2410 Fax : +81-(0)3-6812-2415