

Shin-Etsu Green Silicones™  
SHIN-ETSU SEGS™  
Anti-mold type

# SEALANT-4588T-SEGS

## Eco-friendly Silicone Sealant



SEALANT-4588T-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) Excellent anti-mold properties.
- 4) It has high resistance to heat, moisture, ozone, UV rays, etc. and exhibits excellent weather resistance.
- 5) When used in combination with a primer, it adheres well to most materials.
- 6) It complies with ASTM C920 Type S, Grade NS, Class 25.
- 7) It is equivalent to JIS A 5758 G-20LM-9030G (SR-1), G-30SLM-9030G (SR-1).

### 2 Applications

Construction sealants for :

- Places where mold is likely to grow, such as kitchens, bathrooms, prefabricated refrigeration units, etc.
- Various interior joints, etc.

### 3 General Properties

Parameter \ Product name		SEALANT-4588T-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, Light 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.  
(However, if you are using it in a clean room, please check in advance whether the solvents and volatile components contained in the primer will affect it.)
  - 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.
  - 4-10) Sealant-4588T-SEGS is not recommended for ornamental fish tanks or drinking water tanks.
- 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

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