

Structural Glazing Sealant

SEALANT-FC-295SG

SEALANT-FC-295SG is a two-part silicone sealant for unitized curtain wall systems. It is a fast-cure material with excellent adhesion to most glass and painted aluminum surfaces. Once cured, this sealant becomes a high modulus and flexible silicone rubber suitable for structural and weatherseal applications. This sealant contributes to the superior productivity and high reliability.

1 Features

- Two-part and neutral-cure RTV* silicone sealant
- Used with an airless mixing system, when mixed the material exhibits very high workability, even in low temperature environments
- Mixing ratio: Adjusted to 10 [BASE]: 1 [CAT] by volume
- Cures very fast and features excellent adhesion to most common materials
- Superior weather resistance to temperature change, moisture, ozone and ultraviolet rays

* RTV stands for "room temperature vulcanizing" which means that this material can be cured at room temperature.

2 Applications

For use in manufacturing of structural and weatherseal applications in factory

3 Specifications

- UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials
- ASTM C1184*1
- ASTM C920*2 Type M, Grade NS, Class 25, 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

5 General properties

Parameter	Product name	SEALANT-FC-295SG	
		BASE	CAT
Before mixing		BASE	CAT
Consistency		Paste	Paste
Color		White	Black
Mixing ratio by volume (weight)		100 (100)	10 (7.6)
After mixing			
Snap time at 23°C	min	20 to 50	
VOC Content*	g/L	15	
After cured - After 7 days at 23°C/50%RH		Reference Test	
Consistency		Elastic	
Color		Black	
Density at 25°C	g/cm ³	1.4	
Hardness Shore A	ASTM D2240	35	
After cured - After 21 days at 23°C/50%RH		Reference Test	
10% Tensile stress	MPa	ASTM C1135	0.2
Maximum tensile stress	MPa		1.3
Elongation at break	%		140
Joint movement capability	%	ASTM C719	±25

* 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)



Container image

4 Packaging

[BASE] SEALANT-FC-295SG: 250 kg drum
[CAT] CAT-FC-295SG: 19 kg pail



6 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/>

7 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.
- 4) Before applying, substrates must be tested to verify whether primer is required or not.

8 Limitations

- 1) SEALANT-FC-295SG must not be used in any structural applications without pre-testing.
- 2) SEALANT-FC-295SG must not be used in food, medical or pharmaceutical applications.
- 3) 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.
- 4) 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.

9 Storage conditions

Temperature [BASE]: at or below 30°C, [CAT]: at or below 27°C

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

10 Shelf life

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

11 Safety and hygiene

- 1) Uncured SEALANT-FC-295SG 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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