

FINOTECH®6000 One-component Structural Glazing Silicone Sealant

Description:

FINOTECH®6000 One-component Silicone Structural Glazing Sealant is a one-component, neutral-cure, high-modulus silicone sealant designed specifically for structural glazing applications of glass and metal in factory and onsite. It can be extruded under different weather conditions and cures at ambient temperature by reaction with moisture to form a durable, flexible silicone rubber seal.

Benefit:

- a. Durability - Excellent weatherproofing capability and unaffected by sunlight, rain, snow, ozone
- b. Ease of Application – ready to use as supplied
- c. Neutral Cure - excellent unprimed adhesion to a wide variety of substrates including coated glass; anodized and painted aluminum profiles e.g. PVDF, PEPC
- d. High tensile strength – increased safety factor in SSG application
- e. Compatible with other FT silicone sealants
- f. Low sag or slump – suitable for horizontal, vertical, overhead joint applications
- g. No odor smell, no corrosion
- h. Low VOC
- i. Thermal stability
- j. Meets major structural glazing specifications (ASTM C1184, GB 16776)

Application:

FINOTECH®6000 One-component Silicone Structural Glazing Sealant is designed for factory and site glazing applications. It is suitable for use where dual structural bonding is desired, with up to $\pm 25\%$ movement capability in a well-designed joint. Once cured, the structural sealant forms a durable, flexible and watertight rubber. It has excellent unprimed adhesion to most building material approved by architectural structural glazing application. The medium modulus ensures its practical bonding strength but remains its elasticity.

Packaging information:

FINOTECH®6000 One-component Silicone Structural Glazing Sealant is available in

- a. 300ml cartridge (24PCS/CTN),
- b. 590ml sausage (20PCS/CTN).

Specification:

Typical property values of FINOTECH®6000 One-component Silicone Structural Glazing Sealant
Hangzhou Zhijiang Silicone Chemicals Co., Ltd.

Address: Room 1501, Lvdu World Trade Square No.819, Shixin Road, Xiaoshan Hangzhou, Zhejiang, China, P.C. 311200.

TEL: 0086-571-82392772 **FAX:** 0086-571- 82761863 **URL:**

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as supplied and cured are set forth in the tables below. Typical data below should not be used as specifications development. Assistance with specifications is available by contacting Zhijiang at 0086-571-82761863.

Uncured Properties				
Test		Method	Unit	Result
Color				Black
Specific Gravity			g/ml	1.36~1.40
Extrudability		ISO 9048	s	1~3
Tack Free Time		ASTM C 679	min	40~90
Sag/Slump		ASTMD2202	mm	0
Heat Weight Loss		ASTM C 1184	%	2~4
Cured Properties (21 days after mixing, 23°C, 50% RH)				
Durometer Hardness, Shore A		ISO 7619		35~45
Tensile Strength				
At 25% extension		ASTM C 1135	MPa	0.45~0.55
At 50% extension		ASTM C 1135	MPa	0.80~0.90
Ultimate Tensile Strength		ASTM C 1135	MPa	1.00~1.22
Ultimate Elongation		ASTM C 1135	%	130~180
Application Temperature Range			°C	5~40
Service Temperature Range (after cure)			°C	-40~150
Properties Tested by ASTM C 920 (*1)				
Staining and Color Change		ASTM C510		No staining and no color change
Extrudability		ASTM C 1183	ml/min	>10
Flow Properties	Vertical	ASTM C 639	mm	0
	Horizontal			No deformation
Hardness		ASTM C 661		36
Tack Free Time		ASTM C 679	h	<72
Cycle Movement		ASTM C 719	25%	No bond failure
Heat Aging	Weight Loss	ASTM C1246	%	0.5
	Cracking and			No cracking or chalking

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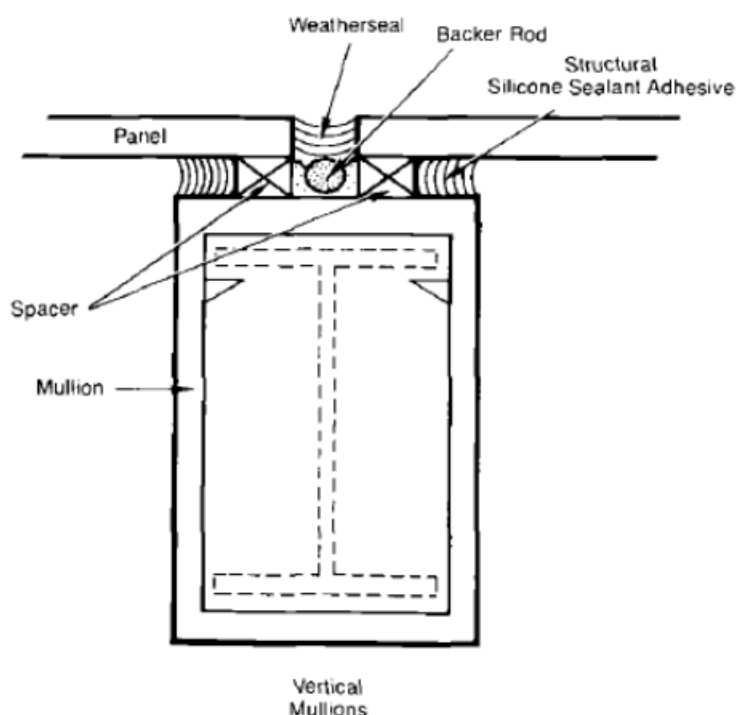
	Chalking			
Accelerated Weathering		ASTM C 793		No cracks
Peel strength	On Mortar	ASTM C 794	N	63.7
	On Glass			60.4
	On Aluminum			80.3

*1: Quoted from TUV SUD PSB Pte. Ltd. Official Test Report.

Surface Preparation:

a. Cleaning

Clean the surface by proper solvent and remove contaminants such as grease, oil, dust, water, frost, dirt, residual sealants or glazing aids and protective films.



b. Priming if needed

FINOTECH®6000 One-component Silicone Structural Glazing Sealant shows good primerless adhesion to many commonly used construction materials. However, some materials with variable surface characteristics may require primer to develop durable long-term adhesion. Prior to use, trial applications should be made to verify adhesion to the specific materials used on the project.

PRIMER APPLICATION IS NOT A SUBSTITUTE FOR SURFACE PREPARATION.

Primers may contain solvents. When handling solvents, refer to manufacturer's MSDS for information on handling, safety and personal protective equipment

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Consult Zhijiang Technical Services Engineer for more information regarding sealant and primer instruction.

Estimator*:

Linear meters for each cartridge or sausage FINOTECH®6000 One-component Silicone Structural Glazing Sealant (m):

structural bite,mm glueline, mm	6		9		12		15		20	
	300ml	590ml	300ml	590ml	300ml	590ml	300ml	590ml	300ml	590ml
6	8.08	15.89	5.39	10.60	4.04	7.95	3.23	6.35	N/A	N/A
9	N/A	N/A	3.59	7.06	2.69	5.29	2.16	4.25	1.62	3.19
12	N/A	N/A	N/A	N/A	2.02	3.97	1.62	3.19	1.21	2.38
15	N/A	N/A	N/A	N/A	N/A	N/A	1.29	2.54	0.97	1.91
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.73	1.44

Cartridges or sausages needed for 100 meters long strip

structural bite,mm glueline,mm	6		9		12		15		20	
	300ml	590ml	300ml	590ml	300ml	590ml	300ml	590ml	300ml	590ml
6	13	7	19	10	25	13	31	16	N/A	N/A
9	N/A	N/A	28	15	38	19	47	24	62	32
12	N/A	N/A	N/A	N/A	50	26	62	32	83	43
15	N/A	N/A	N/A	N/A	N/A	N/A	78	40	104	53
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	137	70

*tolerance and loss are excluded in estimation

Limitation:

FINOTECH®6000 One-component Silicone Structural Glazing Sealant should not be used:

- On surfaces that are continuously immersed in water
- On building materials that bleed oils, plasticizers or solvents, green or partially vulcanized rubber gaskets or tapes
- On frost-laden, wet or contaminated surfaces

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- d. On excessively basic or acidic substrates
- e. In totally confined joints (the sealant requires atmospheric moisture for cure)
- f. If the sealant is intended to be painted (paints do not typically adhere to most silicone sealants)
- g. To surfaces in direct contact with food or other food-grade applications
- h. Under exceedingly hot conditions (exceed 150°C) or cold conditions (below -50°C)
- i. In exceedingly large structural cavities
- j. For use as an interior penetration fire stop sealing system
- k. In horizontal floor joints where abrasion and physical abuse are likely to be encountered
- i. Mill finished aluminum

Shelf-life and storage:

When stored at or below 30°C in the original unopened containers, FINOTECH®6000

One-component Silicone Structural Glazing Sealant has a shelf-life of 12 months from the date of manufacture. Refer to product packaging for "Expiration" date.

Approvals/Specifications:

Meets the requirements of:

GB 16776, ASTM C920 25 CLASS, ASTM C1184.

Handling precautions:

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Zhijiang Website, or from your Zhijiang sales application engineer, or distributor, or by calling Zhijiang customer service.

Health and environmental information:

To support Customers in their product safety needs, Zhijiang has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.chinazhijiang.com or consult your local Zhijiang representative.

Limited warranty information-please read carefully:

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end

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use. Suggestion of use shall not be taken as inducements to infringe any patent.

Zhijiang's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

ZHIJIANG specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability.

ZHIJIANG disclaims liability for any incidental or consequential damages. A 10-year Limited Warranty is available. Some testing may be required.

Consult your Zhijiang Sales Application Engineer for details.

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revised by John Zhao

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