



FINOTECH®8000 Two-component Silicone Structural Glazing Sealant

Description:

Mixed FINOTECH®8000 Two-component Silicone Structural Glazing Sealant is a two-component high-modulus silicone sealant. As supplied, the base is a smooth, white paste and the curing agent is a black paste. Once catalyzed, the material cures to form a high-modulus, flexible silicone rubber that is suitable for use in structural glazing and curtainwall production.

Benefit:

- a. Silicone Durability-Excellent weatherability, virtually unaffected by sunlight, rain, snow, ozone.
- b. Neutral Cure-excellent unprimed adhesion to a wide variety of substrates including coated, enameled, and reflective glasses; anodized and polyester coated or painted aluminum profiles including most fluoropolymerbased paints
- c. High tensile strength-increase safety factors in SSG designs
- d. Catalyst options-increase cure speed and strength to accommodate faster project schedules and production processes

Application:

FINOTECH®8000 Two-component Silicone Structural Glazing Sealant is designed for factory glazing and curtainwall production. It is suitable for use where dual structural applications are desired, with up to $\pm 12.5\%$ movement capability in a well-designed weatherseal. Once cured, this structural sealant forms a durable, flexible and watertight bond. It has excellent unprimed adhesion to most glass, chromated and anodized aluminum and any painted aluminum surfaces. Primer DT-2000 may be required for fast and consistent adhesion to polyester powdercoat and fluorocarbon coatings and other high performance coated substrates approved for architectural structural glazing applications.

Packaging information:

FINOTECH®8000 Two-component Silicone Structural Glazing Sealant is available in

- a.Component A (Base) 190L with Component B (Catalyst) 18.5L
- b.Component A (Base) 18L with Component B (Catalyst) 1.8L

Typical properties:

Typical property values of FINOTECH®8000 Two-component Silicone Structural Glazing Sealant 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

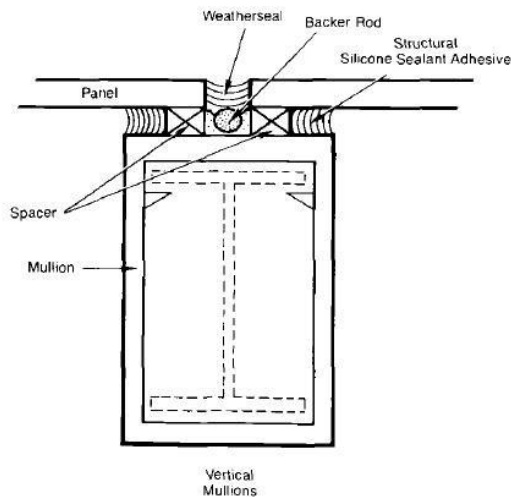
Test	Component A		Component B
Color	White		Black
Specific Gravity, g/ml	1.40~1.45		1.01~1.04
Mix Ratio by weight	10:1~14:1		
Mixed Compound Properties (12:1 mix ratio by weight, 23°C,50% RH)			
Test	Method	Unit	Result
Color			black
Specific Gravity		g/ml	~1.40
Snap Time		min	35~60
Extrudability	ISO 9048	s	2~5
Tack Free Time	ASTM C 679	min	40~65
Sag/Slump	ASTM D 2202	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	0.35~0.45
At 50% extension	ASTM C 1135	MPa	0.55~0.65
Ultimate Tensile Strength	ASTM C 1135	MPa	0.90~1.20
Ultimate Elongation	ASTM C 1135	%	120~150
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	mm	0
	Horizontal	ASTM C 639	No deformation
Hardness	ASTM C 661		40
Tack Free Time	ASTM C 679	h	<72
Cycle Movement	ASTM C 719	12.5%	No bond failure
Heat Aging	Weight Loss ASTM C1246	%	0.6

	Cracking and Chalking			No cracking or chalking
Accelerated Weathering		ASTM C 793		No cracks
Peel strength	On Mortar	ASTM C 794	N	76.3
	On Glass			90.8
	On Aluminum			71.5
Properties when Applied in Insulating Glass (*2)				
MVTR		EN1279-4	$g \cdot 2mm / (m^2 \cdot 24h)$	6.0
Adhesion and aging		EN1279-4		Pass
IG moisture penetration index Iav (with FT 301)		EN1279-2		0.10

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

*2: Quoted from TUV Rheinland Nederland B.V. Official Test Report.

How to use:



a. Preparation

Clean all joints removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

b. Typical jointPicture

c. Priming and Caution

FINOTECH®8000 Two-component Silicone Structural Glazing Sealant attains primerless adhesion to many encountered construction materials. However, some materials with variable surface characteristics may require the use of a primer to help obtain durable long-term adhesion. Prior to use, trial applications should be made to check adhesion to the specific materials to be



used on the product. See the FT sealants primer datasheets for product specific information on use and priming instructions. PRIMER APPLICATION IS NOT A SUBSTITUTE FOR SURFACE PREPARATION. Consult FT Performance Materials Technical Services for sealant-primer-substrate recommendations.

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

d. Estimator

Applied length for each set FINOTECH®8000 Two-component Silicone Structural Glazing Sealant (m) (12:1 mix ratio by weight)

structural bite,mm glueline, mm	6		9		12		15		20	
	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L
6	4983	485	3324	323	2491	242	1992	194	N/A	N/A
9	N/A	N/A	2214	215	1659	161	1332	130	999	97
12	N/A	N/A	N/A	N/A	1246	121	999	97	746	73
15	N/A	N/A	N/A	N/A	N/A	N/A	796	77	598	58
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450	44

Kits needed for 10,000 meters long strip based on FINOTECH®8000 Two-component Silicone Structural Glazing Sealant (12:1 mix ratio by weight)

structural bite,mm glueline, mm	6		9		12		15		20	
	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L	190L+ 18.5L	19L+ 1.8L
6	3	21	4	31	5	42	6	52	N/A	N/A
9	N/A	N/A	5	47	7	63	8	77	11	104
12	N/A	N/A	N/A	N/A	9	83	11	104	14	137
15	N/A	N/A	N/A	N/A	N/A	N/A	13	130	17	173
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	228

Limitation:

FINOTECH®8000 Two-component Silicone Structural Glazing Sealant should not be used:

- a. On surfaces that are continuously immersed in water

- b. On building materials that bleed oils, plasticizers or solvents, green or partially vulcanized rubber gaskets or tapes
- c. On frost-laden, wet or contaminated surfaces
- d. On excessively basic or acidic substrates
- e. If the sealant is intended to be painted (paints do not typically adhere to most silicone sealants)
- f. To surfaces in direct contact with food or other food-grade applications
- g. Under exceedingly hot conditions (exceed 150°C) or cold conditions (below -40°C)
- h. In exceedingly large structural cavities
- i. For use as an interior penetration fire stop sealing system
- j. In horizontal floor joints where abrasion and physical abuse are likely to be encountered

Usable life and storage:

When stored at or below 30°C in the original unopened containers, FINOTECH®8000

Two-component Silicone Structural Glazing Sealant has a usable 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 12.5 CLASS, ASTM C 1184, EN 1279.

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



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.

2025Ver1.0

Revised Date: February 15, 2025

revised by John Zhao