



FINOTECH®2000 Weatherproof Silicone Sealant

Description

FINOTECH®2000 Weatherproof Silicone Sealant is a one-component, neutral-cure, medium-modulus sealant specially designed for general glazing and weather sealing in curtain wall and building facades. It can be easily extruded in any weather 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. Medium modulus – 35% movement capability
- 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. Thermal Stability
- i. Meets specifications(ASTM C920, GB/T 14683)

Properties:

Typical data of FINOTECH®2000 sealant is listed in the tables below.
The data should not be used as specification development.
Assistance with specifications is available by contacting Zhijiang at 0086-571-82761863.

Properties (Paste)			
Test	Method	Unit	Result
Color			Black, white, grey
Specific Gravity		g/ml	1.45 ± 0.05
Extrudability ^(*1)	ASTM C 1183	ml/min	>200
Tack Free Time ^(*1)	ASTM C 679	h	<2
Flow Properties ^(*1)	Vertical	ASTM C 639	0
	Horizontal		No deformation
Staining and Color Change ^(*1)	ASTM C510		No staining and no color change
Properties(Fully Cured)			
Hardness ^(*1)	ASTM C 661		36
Cycle Movement ^(*1)	ASTM C 719	35%	No bond failure

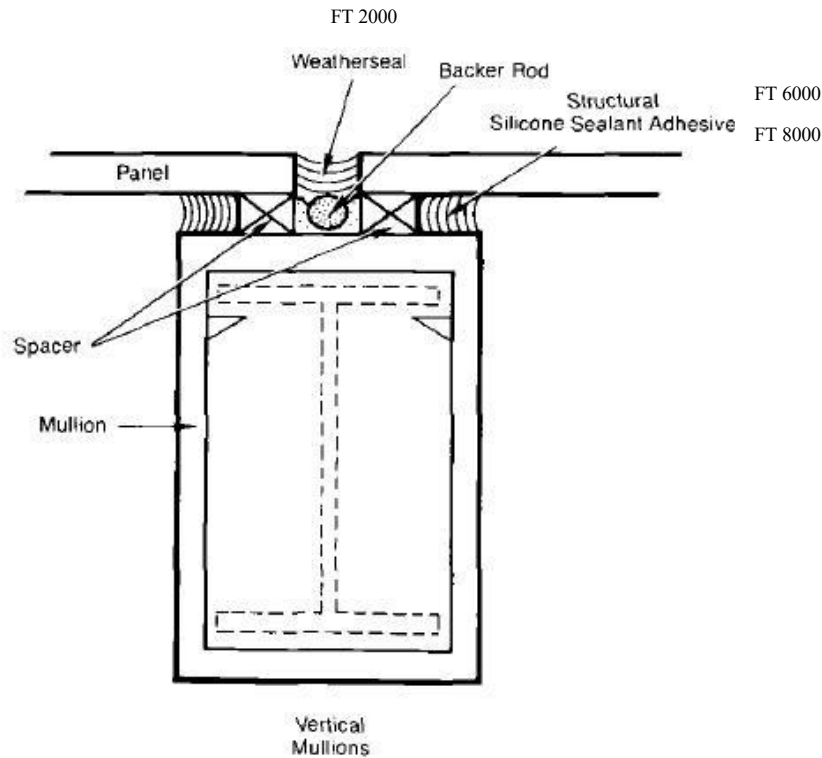
100% Tensile Modulus		EN ISO 8339	MPa	0.8
Elastic recovery		EN ISO 7389	%	85
Tensile properties at maintained extension		EN ISO 8340		No bond failure
Adhesion/cohesion at variable temperatures		EN ISO 9047		No bond failure
Adhesion/cohesion at maintained extension after water immersion		EN ISO 10590		No bond failure
Peel strength ^(*1)	On Mortar	ASTM C 794	N	100.4
	On Glass			104.6
	On Aluminum			110.2
Heat Aging ^(*1)	Weight Loss	ASTM C1246	%	0.5
	Cracking and Chalking			No cracking or chalking
Accelerated Weathering ^(*1)		ASTM C 793		No cracks
Application Temperature Range			°C	5-40
Service Temperature Range (after cure)			°C	-40-150

*1: Quoted from TUV SUD PSB Pte. Ltd. Official Test Report (According to ASTM C 920).

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®2000 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. Consult Zhijiang Technical Services Engineer for more information regarding sealant and primer instruction.

Estimator*

Linear meters for each cartridge or sausage FT 2000 (m):

width,mm \ depth,mm	6		9		12		15		20	
	300ml	500ml	300ml	500ml	300ml	500ml	300ml	500ml	300ml	500ml
6	8.08	13.47	5.39	8.98	4.04	6.73	3.23	5.38	N/A	N/A

9	N/A	N/A	3.59	5.98	2.69	4.48	2.16	3.60	1.62	2.70
12	N/A	N/A	N/A	N/A	2.02	3.37	1.62	2.70	1.21	2.02
15	N/A	N/A	N/A	N/A	N/A	N/A	1.29	2.15	0.97	1.62
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.73	1.22

Cartridges or sausages needed for 100 meters long strip

width,mm depth,mm	6		9		12		15		20	
	300ml	500ml	300ml	500ml	300ml	500ml	300ml	500ml	300ml	500ml
6	13	8	19	12	25	15	31	19	N/A	N/A
9	N/A	N/A	28	17	38	23	47	29	62	38
12	N/A	N/A	N/A	N/A	50	30	62	38	83	50
15	N/A	N/A	N/A	N/A	N/A	N/A	78	47	104	63
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	137	83

***tolerance and loss are excluded in estimation**

Limitation

FINOTECH®2000 Weatherproof Silicone Sealant should not be used :

- a. As a structural sealant.
- b. On surfaces that are continuously immersed in water
- c. On building materials that bleed oils, plasticizers or solvents, green or partially vulcanized rubber gaskets or tapes
- d. On frost-laden, wet or contaminated surfaces
- e. On excessively basic or acidic substrates
- f. In totally confined joints (the sealant requires atmospheric moisture for cure)
- g. If the sealant is intended to be painted (paints do not typically adhere to most silicone sealants)
- h. To surfaces in direct contact with food or other food-grade applications
- i. Under exceedingly hot conditions (exceed 150 °C) or cold conditions (below -40°C)
- j. In horizontal floor joints where abrasion and physical abuse are likely to be



encountered

- k. On mill finished aluminum

Packaging information:

FINOTECH®2000 Weatherproof Silicone Sealant is available in

- a. 300ml cartridge (24PCS/CTN),
- b. 500ml sausage (20PCS/CTN).

Shelf-life and storage:

When stored at or below 30°C in the original unopened containers, FINOTECH®2000 Weatherproof Silicone Sealant has a shelf-life of 12 months from the date of manufacture. Refer to product packaging for "Expiration" date.

Approvals/Specifications:

Meets GB/T 14683 35HM, ASTM C920 35 CLASS, EN 15651 25HM

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:

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.

2023Ver1.0

Revised Date: February 15, 2023

revised by John Zhao