



FINOTECH®997 Silicone Sealant for Insulating Glass

Description:

Mixed FINOTECH®997 Silicone Sealant for Insulating Glass 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 a high-modulus, flexible silicone rubber that is suitable for use in IG unit 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 IG designs
- d. Catalyst options- increase cure speed and strength to accommodate faster project schedules and production processes
- e. Compatible with FINOTECH two-component structural glazing silicone sealant
- f. Low sag or slump – which may be used for application to horizontal, vertical or overhead surfaces
- g. No smell, no corrosion
- h. Thermal Stability
- i. Meets global standards for IG glazing (EN1279, GB/T 29755)

Application:

Mixed FINOTECH®997 Silicone Sealant for Insulating Glass is designed for use as an insulating glass secondary seal and is easily dispensed using readily available plural component pumping equipment. Only minor modifications to existing silicone plural component pumping system are required.

Packaging information:

FINOTECH®997 Silicone Sealant for Insulating Glass 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®997 Silicone Sealant for Insulating Glass as supplied and cured are set forth in the tables below. Typical product data values should not be used as specifications. Assistance with specifications is available by contacting Zhijiang at 0086-571-82761863.

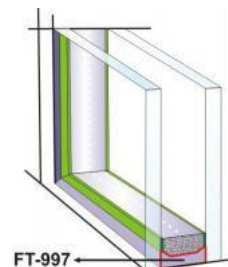
Uncured Properties			
Test	Component A		Component B
Color	White		Black
Specific Gravity, g/ml	1.45±0.05		1.02±0.02
Mix Ratio by weight	10:1~14:1		
Mixed Compound Properties (12:1 mix ratio by weight, 23°C,50% RH)			
Test	Method	Unit	Result
Color			black
Specific Gravity		g/ml	1.40±0.05
Snap Time		min	35~60
Sag/Slump	ASTM D2202	mm	0
Heat Weight Loss	ASTM C 1184	%	2~4
Cured Properties (21 days after mixing, 23°C,50% RH)			
Hardness, Shore A	ISO 7619		45±5
Ultimate Tensile Strength	ASTM C 1135	MPa	0.80±0.10
Ultimate Elongation	ASTM C 1135	%	90±20
Application Temperature Range		°C	5~40
Service Temperature Range (after cure)		°C	-40~150
MVTR	EN1279-4	g*2mm/ (m ² *24h)	12 (*1)
Adhesion and aging	EN1279-4		Pass (*1)
IG moisture penetration index Iav (with FT 301)	EN1279-2		0.16 (*1)

*1: The marked result is tested by TUV Rheinland Nederland B.V.

How to use:

FINOTECH®997 Silicone Sealant for Insulating Glass should be mixed and dispensed using two-component mixing equipment which is readily available from several equipment manufacturers. This equipment is specially designed to meter proper proportions of A base and B curing agent, mix in an air-free environment and dispense at the proper pressures and volumes to insure air-free mixed material. Hand mixing is not recommended.

Hangzhou Zhijiang Silicone Chemicals Co., Ltd.





Zhijiang regarding suggested pumping equipment start-up and shutdown procedures which cover proper operating pressures, mixing devices and purging requirements.

Kit matching of the A and B FINOTECH®997 Silicone Sealant for Insulating Glass components is not required.

The B curing agent component is moisture sensitive and should not be exposed to the atmosphere. The curing agent may require minimal hand mixing before placing container in pumping equipment.

Cure rate may be adjusted by changing the A base to B curing agent ratios. FINOTECH®997 Silicone Sealant for Insulating Glass may be used with A to B ratios from 14:1 to 10:1 by weight (nearly 9:1 by volume).

Limitation:

FINOTECH®997 Silicone Sealant for Insulating Glass should be used in the fabrication of insulating glass where the dual seal method of fabrication is used. The moisture vapour transmission rate of silicone sealants is sufficiently high as to preclude their use in the fabrication of single seal insulating glass units. The dual seal fabrication method requires the use of a polyisobutylene primary seal with soldered, welded or butyl injected spacer frame corners.

Prior to production use, a sample of base (A component) and curing agent (B component) should be taken from each lot of material to be used, weighed to proper A to B ratio, hand mixed, and checked for proper tack-free time and thick section cure rate prior to placing in production.

Usable life and storage:

When stored at or below 30°C in the original unopened containers, FINOTECH®997 Silicone Sealant for Insulating Glass has a usable life of 12 months from the date of manufacture. Refer to product packaging for “Use By” date.

Approvals/Specifications:

Meets the requirements of:
EN1279, GB/T 29755.

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.

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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 15-year Weatherseal Limited Warranty is available. Some testing may be required. Consult your Zhijiang Sales Application Engineer for details.

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Revised Date: February 18, 2022

revised by John Zhao