

PRODUCT DATA SHEET

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FINOTECH® SQ-50

High Modulus Insulating Glass Silicone Sealant

Description

FINOTECH® SQ-50 Silicone Sealant is a two-component silicone designed as a secondary sealant for Insulating Glass units. 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.

Main Features

- High Modulus offering structural capabilities
- Suitable as secondary sealant for EN1279 compliant gas filled IGU's being used in structural glazing facades
- Durable with excellent thermal stability and weatherability, virtually unaffected by sunlight, rain, snow, ozone.
- No odor, neutral cure.
- Low sag or slump properties.
- 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 fluoropolymer-based paints.
- Compatible with FINOTECH® two-component structural glazing silicone sealant.
- Meets global standards for IG glazing EN 1279
- ETAG 002 (under registration process)

Product Characteristics

FINOTECH® SQ-50 Uncured Properties			
Property	Component A	Component B	
Color	White	Black	
Specific Gravity, g/ml	1.50 ±0.05	1.05 ±0.05	
Mix Ratio by weight	10:1		
Mixed Compound Properties (23°C, 50% RH)			
Property	Method	Unit	Value
Color			Black
Specific Gravity	10:1	g/ml	1.45 ±0.05

Snap Time		min	30 - 60
Sag/Slump	ASTM D2202	mm	0
Heat Weight Loss	ASTM C1184	%	2~4
Cured Properties (7 days after mixing, 23°C, 50% RH)			
Hardness, Shore A	ISO 868	Min 7 days	>55
Tensile Strength	ISO 8339	MPa	1.0
Elongation at break	ISO 8339	%	50
Application Temperature Range		°C	+5 /+40
Service Temperature Range		°C	-50 /+150
Design stress in tension	ETAG 002	MPa	0.17
Design stress in dynamic shear	ETAG 002	MPa	0.13

Approvals/Specifications

Meets the requirements of EN 1279 and ETAG 002

Application

FINOTECH® SQ-50 should be mixed and dispensed using two-component mixing equipment which is readily available from several international accepted 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.

The FINOTECH technical team will consult its customers upon request regarding pumping equipment start-up and shutdown procedures which cover proper operating pressures, mixing devices and purging requirements. FINOTECH secures an outmost consistency of their products. Kit matching of the A and



B FINOTECH® SQ-50 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® SQ-50 may be used with A to B ratios from 12:1 to 10:1 by weight (nearly 8:1 by volume). 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 in-spec cure time and thick section cure rate prior to placing in production.

Packaging

FINOTECH® SQ-50 Silicone Sealant for Insulating Glass is available in

- 1) Component A (Base) in 250 kg drums and
- 2) Component B (Catalyst) 195 kg drums or 25 kg pails

Shelf-life and Storage

When stored at or below 30°C in the original and unopened packaging, FINOTECH® SQ-50 has a shelf life of 12 months from the date of manufacture. Refer to product packaging for "Manufacturing Date".

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 FINOTECH Website (www.finotech.ch).

Health and Environmental

To support Customers in their product safety needs, FINOTECH has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available. For further information, please see our website www.finotech.ch or consult your local FINOTECH representative.

Limited Warranty

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. FINOTECH's product warranty confirms our products will meet always the technical data sheets values for the duration of the granted shelf-life if all advises given by FINOTECH through application, storage and handling guidelines have been followed up correctly. Customers can be asked to protocol and proof that the guidelines were followed. FINOTECH specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability others than described in our technical data sheets. FINOTECH's product warranty disclaims liability for any incidental or consequential damages. Further building project warranties could be given at particular request by the clients following the FINOTECH SQM Building Warranty testing and consulting procedures.