

## PRODUCT DATA SHEET

Date: 01.12.2020

# FINOTECH® SQ-10

## Insulating Glass Silicone Sealant

### Description

FINOTECH® SQ-10 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.

### Features

- 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, GB/T 29755.

### Product Characteristics

| FINOTECH® SQ-10 Uncured Properties       |             |             |           |
|--|-------------|-------------|-----------|
| Property                                 | Component A | Component B |           |
| Color                                    | White       | Black       |           |
| Specific Gravity, g/ml                   | 1.45±0.05   | 1.06±0.02   |           |
| Mix Ratio by weight                      | 11:1 ± 10%  |             |           |
| Mixed Compound Properties (23°C, 50% RH) |             |             |           |
| Property                                 | Method      | Unit        | Value     |
| Color                                    |             |             | Black     |
| Specific Gravity                         |             | g/ml        | 1.42±0.05 |
| Snap Time                                |             | min         | 55±15 min |
| 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 7619              | 24h<br>7 days     | >30<br>45±5       |
| Ultimate Tensile Strength                            | ISO 8339<br>ASTM D412 | MPa               | 0.80±0.10<br>>1.5 |
| Ultimate Elongation                                  | ISO 8339              | %                 | 90±20             |
| Application Temperature Range                        |                       | °C                | -5~40             |
| Service Temperature Range                            |                       | °C                | -50~150           |
| MVTR   | EN1279-4              | g*2mm<br>/(m2*24) | 6.4               |
| Adhesion and Aging                                   | EN1279-4              |                   | Pass              |
| IG moisture penetration index IAV                    | EN1279-2              |                   | 0.16              |

### Approvals/Specifications

Meets the requirements of EN 1279, GB/T 29755.

### Application

FINOTECH® SQ-10 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 utmost consistency of their products. Kit matching of the A and B FINOTECH® SQ-10 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-10 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 tack-free time and thick section cure rate prior to placing in production.

### **Packaging**

FINOTECH® SQ-10 Silicone Sealant for Insulating Glass is available in

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

### **Shelf-life and Storage**

When stored at or below 30 °C in the original and unopened packaging, FINOTECH® SQ-10 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](http://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](http://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.