



# PRI Construction Materials Technologies LLC

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## Laboratory Test Report

**Report for:** Joerg Szybalski  
Finotech Switzerland AG  
Im Dörfli 14B,  
CH-8700 Küsnacht / Kt.  
Zurich, Switzerland

**Product Name:** SQ-110

**Project No.(s):** 2408T0003

**Date(s) Tested:** Oct. 6, 2021 - Dec. 15, 2021

**Test Methods:** ASTM C920

**Results Summary:** Compliant: ASTM C920:  
Type M; Grade NS; Class 12.5; Use M, Use G, Use A

**Purpose:** Determine specification properties of the identified product for compliance with ASTM C920: *Standard Specification for Elastomeric Joint Sealants.*

**Test Methods:** Testing was completed as described in ASTM C920-18: *Standard Specification for Elastomeric Joint Sealants.* Test methods assigned or referenced include ASTM C510; *Standard Test Method for Staining and Color Change of Single or Multicomponent Joint Sealants*, ASTM C639: *Standard Test Method for Rheological (Flow) Properties of Elastomeric Sealants*, ASTM C661: *Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer*, ASTM C679: *Standard Test Method for Tack-Free Time of Elastomeric Sealants*, ASTM C719: *Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)*, ASTM C793: *Standard Test Method for Effects of Laboratory Accelerated Weathering on Elastomeric Joint Sealants*, ASTM C794: *Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants* (modified by performing dry-adhesion testing only), ASTM C1183: *Standard Test Method for Extrusion Rate of Elastomeric Sealants* and ASTM C1246: *Standard Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants After Cure*, and ASTM C1442: *Practice for Conducting Tests on Sealants Using Artificial Weathering.*

**Sampling:** The following materials were received by PRI.

| <u>Product</u>    | <u>Source</u> | <u>Date</u>   | <u>Sampling</u> |
|-------------------|---------------|---------------|-----------------|
| Finotech SQ-110 – | Manufacturer  | Aug. 30, 2021 | Manufacturer    |
| Finotech SQ-110 – | Manufacturer  | Aug. 30, 2021 | Manufacturer    |

**Specimen Prep:** Components A and B were mixed in a 12:1 Ratio by mass.  
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**Specimen Prep:** Components A and B were mixed in a 12:1 Ratio by mass

**Results:**

| Property  | Test Method               | Result <sup>1,2</sup> | Requirement             |
|---|---------------------------|-----------------------|-------------------------|
| Rheological Properties (in)<br>1 specimen; 3/4" x 1/2" x 6"; Type II<br>Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH;<br>Cond. channel 2h @ Temp;<br>Test Cond. 4h @ Temp   | ASTM C639                 |                       |                         |
| Vertical Slump at 40±3.6°F  |                           | 0                     | ≤ 3/16                  |
| Vertical Slump at 122±3.6°F   |                           | 0                     | ≤ 3/16                  |
| Horizontal Slump at 40±3.6°F  |                           | Pass                  | No deformation          |
| Horizontal Slump at 122±3.6°F   |                           | Pass                  | No deformation          |
| Extrusion Rate (ml/min)<br>1 specimen;<br>Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH;<br>Specific Gravity of complete (ASTM D 1475)<br>Test Cond. @ 73.4±3.6°F & 50±5%RH<br>Test with plastic nozzle @ 40psi for 60s                  | ASTM C1183<br>Procedure A |                       |                         |
| Specific Gravity  | ASTM D1475                | NA                    | Report                  |
| Extrusion Rate  |                           | NA                    | ≥ 10                    |
| Application Life – Type M, Grade P ONLY (mL/min)<br>1 specimen;<br>Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH;<br>Test Cond. 3h @ 73.4±3.6°F & 50±5%RH<br>Test with plastic nozzle @ 40psi for 60s                                    | ASTM C1183<br>Procedure A |                       |                         |
| Specific Gravity  | ASTM D1475                | 1.2                   | Report                  |
| Extrusion Rate 5 min after mixing   |                           | 91                    | ≥ 10                    |
| Hardness (hardness reading)<br>2 specimens; 5" x 1-1/2" x 1/4";<br>3 measurement readings per specimen (6 total);<br>Cond. 21d @ 73.4±3.6°F & 50±5%RH followed by;<br>Test Cond. 73.4±3.6°F & 50±10%RH;<br>Test Durometer, Type A-2 | ASTM C661                 |                       |                         |
| Indentation Hardness  |                           | 37                    | < 60                    |
| Effects of Heat Aging (%)<br>3 specimens; 5" x 1-1/2" x 1/4";<br>Cure 28d @ 73.4±3.6°F & 50±5%RH;<br>Test Cond. 21d @ 158±3.6°F   | ASTM C1246                |                       |                         |
| Percent Weight Loss   |                           | 0.2                   | ≤ 7                     |
| Visual Examination for presence of cracks or chalking   |                           | Pass                  | No cracking or chalking |

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| Property   | Test Method              | Result <sup>1,2</sup> | Requirement                      |
|--|--------------------------|-----------------------|----------------------------------|
| Tack-Free Time (h)<br>2 specimens; 3-3/4" x 1" x 1/8";<br>Test Cond. 73.4±3.6°F & 50±5%RH;<br>Test @ 72h   | ASTM C679                |                       |                                  |
| Actual Tack Free Time  |                          | 0.5                   | ≤ 72                             |
| Stain and Color Change [Pass/Fail]<br>3 specimens; 5" x 1-1/2" x 1/4";<br>Cond. 24h @ 73.4±3.6°F & 50±5%RH;<br>Test 100h ASTM G 154, Cycle 1<br>Test 14d at 73.4±3.6°F & 50±5%RH w/ immersion daily  | ASTM C510                |                       |                                  |
| Visual Inspection for stain and color change   |                          | Pass                  | No visible stain or color change |
| Adhesion and Cohesion Under Cyclic Movement (in <sup>2</sup> )<br>3 specimens; 1/2" x 1/2" x 2": Movement ± 12.5%<br>Cure 21d @ 73.4±3.6°F and 50±5%RH followed by;<br>Test Cond. 7d Water Immersion @ 73.4±3.6°F;<br>Test Cond. 7d Compressed @ 158°F;<br>Test 10 cycles at 73.4±3.6°F; Rate 1/8 in/h;<br>Test 10 cycles with compression at 158±3.6°F followed by<br>extension at -15±3°F; Rate 1/8"/h | ASTM C719                |                       |                                  |
| Aggregate loss in bond and cohesion<br>Mortar substrate unprimed   |                          | 0                     | ≤ 1-1/2                          |
| Aggregate loss in bond and cohesion<br>Glass substrate unprimed  |                          | 0                     | ≤ 1-1/2                          |
| Aggregate loss in bond and cohesion<br>Aluminum substrate unprimed   |                          | 0                     | ≤ 1-1/2                          |
| Adhesion-in-Peel (lbf)<br>4 specimens; 1" x 1/16";<br>Cure 21d @ 73.4±3.6°F and 50±5%RH followed by;<br>Immersed in distilled water for 7d @ 73.4±3.6°F<br>Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min  | ASTM C794                |                       |                                  |
| Aggregate loss in bond and cohesion<br>Mortar substrate unprimed   | Pre-immersion            | 19                    | ≥ 5                              |
|  | Post-immersion           | 17                    |                                  |
| Aggregate loss in bond and cohesion<br>Glass substrate unprimed  | Pre-immersion            | 20                    | ≥ 5                              |
|  | Post-immersion           | 15                    |                                  |
| Aggregate loss in bond and cohesion<br>Aluminum substrate unprimed   | Pre-immersion            | 18                    | ≥ 5                              |
|  | Post-immersion           | 13                    |                                  |
| Adhesion-in-Peel exposed to UV through glass (lbf)<br>4 specimens; 1" x 1/16";<br>Cure 21d @ 73.4±3.6°F and 50±5%RH followed by;<br>Test Cond. 200h ASTM G 154, Cycle 1<br>Immersed in distilled water for 7d @ 73.4±3.6°F<br>Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min   | ASTM C794/<br>ASTM C1442 |                       |                                  |
| Adhesion-in-Peel<br>UV through glass unprimed  |                          | 17                    | ≥ 5                              |

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| Property  | Test Method | Result <sup>1,2</sup> | Requirement |
|---|-------------|-----------------------|-------------|
| Effects of Accelerated Weathering [ <i>Pass/Fail</i> ]<br>3 specimens; 5" x 1-1/2" x 1/4";<br>Cure 21d @ 73.4±3.6°F and 50±5%RH;<br>Test Cond. 250h ASTM G 154, Cycle 1;<br>Test Cond. 24h @ -15±4°F<br>Test 180° around 1/2" ø mandrel in 1s @ -15°F | ASTM C793   |                       |             |
| Visual Inspection for cracking<br>after accelerated weathering  |             | Pass                  | Pass        |
| Visual Inspection for cracking<br>after cold exposure and low temperature bend  |             | Pass                  | Pass        |

Notes: 1 – NA represents "Not Applicable"  
 2 – All specimens for peel adhesion exhibited less than 25% adhesive failure.

**Statement of Compliance:** The product tested complies with the physical requirements specified in ASTM C920: *Standard Specification for Elastomeric Joint Sealants*. The laboratory test results presented in this report are representative of the material supplied.

**Limits of Use:** Refer to page 1 results summary for use, class of movement, and for qualified substrates.

Signed:   
 Brent Barbeau  
 Manager

Date: 06/17/2022

**Report Issue History:**

| Issue #  | Date       | Pages | Revision Description (if applicable) |
|----------|------------|-------|--------------------------------------|
| Original | 06/17/2022 | 4     | NA                                   |

**END OF REPORT**

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