# PRI Construction Materials Technologies LLC

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## Laboratory Test Report

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|---|---|
| **Report for:** | Kelly Allore<br>Dow Silicones Corporation<br>2200 West Salzburg Road<br>Midland, Michigan 48686 |
| **Product Name:** | DOWSIL™ 890-SL Silicone Joint Sealant |
| **Project No.:** | DCC-529-02-01 |
| **Dates Tested:** | October 9, 2018 – December 18, 2018 |
| **Test Methods:** | ASTM C 719 |
| **Results Summary:** | Class of movement +100% / -50% on the following substrates:<br>Concrete (large aggregate) unprimed<br>Concrete (small aggregate) unprimed |

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**Purpose:**

Evaluate the liquid sealant for joint movement capability in accordance with ASTM C 719: *Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)*.

The product is a self-leveling silicone joint sealant for concrete pavement joints.

**Test Methods:**

Testing was completed in accordance with the ASTM C 719-14 (2019): *Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle).*

Testing was completed for movement capability of +100% / -50% on unprimed concrete with both large aggregate as well as small aggregate.

Test samples were modified from the prescribed configuration to include a 5/8" backer rod utilized in the lower portion of the constructed joint. This replaced the prescribed Teflon spacer and served to create a typical joint configuration.

**Sampling:**

The following materials were received by PRI:

| Product | Source | Date | Sampling |
|---|---|---|---|
| DOWSIL™ 890-SL Silicone Joint Sealant | Shepherdsville, KY | January 31, 2019 | Dow Silicones Corporation |



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**Results:**

| Property | Test Method | Result | Requirement |
|---|---|---|---|
| **Performance Properties Profile for Liquid Sealants** | | | |
| Adhesion and Cohesion Under Cyclic Movement ($in^2$)<br>Movement Class 100: +100% / -50%<br>3 specimens; 1/2" x 1/2" x 2";<br>5/8" backer rod at 0.5" depth<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 C 719 | | |
| Aggregate loss in bond and cohesion<br>Large aggregate concrete unprimed | | 0 | ≤ 1-1/2 |
| Aggregate loss in bond and cohesion<br>Small aggregate concrete unprimed | | 1 | ≤ 1-1/2 |

Notes: None

**Statement of Attestation:**

The properties of the material tested were determined in accordance with ASTM C 719-14 (2019): *Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)* as modified herein. The laboratory test results presented in this report are representative of the material supplied.

**Signed:** 

**Jason Simmons**
**Director**

**Date:** January 31, 2019

**Report Issue History:**

| Issue # | Date | Pages | Revision Description (if applicable) |
|---|---|---|---|
| Original | 01/31/2019 | 2 | NA |

**END OF REPORT**


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