PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for:	Kelly Allore Dow Silicones Corporation 2200 West Salzburg Road Midland, Michigan 48686
Product Name:	DOWSIL™ 888 Silicone Joint Sealant
Project No.:	DCC-519-02-01
Dates Tested:	August 7, 2018 – October 15, 2018
Test Methods:	ASTM C 719
Results Summary:	Stated class of movement +100% / -50% on the following substrates: Concrete 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 non-sag silicone joint sealant for portland cement 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.

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™ 888 Silicone Joint Sealant	Shepherdsville, KY	January 31, 2019	Dow Silicones Corporation

Results:

Property	Test Method	Result	Requirement
Performance Properties Profile for Liquid Sealants			
Adhesion and Cohesion Under Cyclic Movement (in^2) Movement Class 100: +100% / -50% 3 specimens; 1/2" x 1/2" x 2"; 5/8" backer rod at 0.5" depth Cure 21d @ 73.4±3.6°F and 50±5%RH followed by; Test Cond. 7d Water Immersion @ 73.4±3.6°F; Test Cond. 7d Compressed @ 158°F; Test 10 cycles at 73.4±3.6°F; Rate 1/8 in/h; Test 10 cycles with compression at 158±3.6°F followed by; Extension at -15±3°F; Rate 1/8"/h	ASTM C 719		
Aggregate loss in bond and cohesion Large aggregate concrete unprimed		0	≤ 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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