



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Kelly Allore
Dow Silicones Corporation
2200 West Salzburg Road
Midland, MI 48686

Product Name: DOWSIL™ Silicone Transition Strip

Project No.: 2107T0050

Date(s) Tested: Nov. 26, 2023 – Mar. 25, 2024

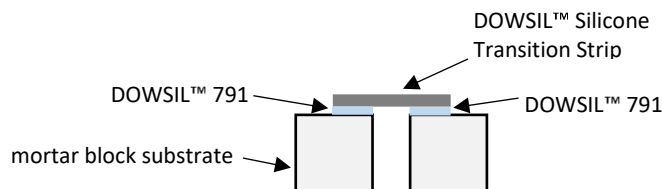
Test Method(s): SWR Institute Product Validation Performance Profile for Pre-Cured Sealants

Results Summary: Performance meets or exceeds data sheet reported values

Purpose: Evaluate DOWSIL™ Silicone transition Strip for compliance with the Sealant Waterproofing and Restoration Institute's Product Validation Program for Pre-Cured Sealants.

Test Methods: Testing was completed in accordance with the Sealant, Waterproofing and Restoration Institute's Product Validation Program for Pre-Cured Sealants. Test Methods utilized include ASTM C1523-17: *Standard Test Method for Determining Modulus, Tear and Adhesion Properties of Precured Elastomeric Joint Sealants* and ASTM D412-16(2021): *Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension*. Ultimate elongation at break has been reported in units of (%).

For tear propagation and loss of adhesion or cohesion, 2" long specimens were cut from a roll 1.5" wide DOWSIL™ Silicone Transition Strip and adhered to 1" x 1" x 3" mortar blocks per the manufacturer's installation instructions with DOWSIL™ 791 Silicone Sealant at opposite sides of a bridge joint configuration. The adhesive was applied at a thickness of approximately 3/8" and a 1/2" depth of bond.



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The laboratory test results presented in this report are based on the material(s) supplied and tested. The results, and by extension any statements of conformity, opinions, or interpretations, apply the "simple acceptance" decision rule for measurement uncertainty accounting. This report is for the exclusive use of stated client. Only the client is authorized to permit copying or distribution of this report and then only in its entirety. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Sampling:

The following materials were procured through local reputable distribution by PRI:

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
DOWSIL™ Silicone Transition Strip	Tampa, FL	Nov. 2, 2023	Coastal Construction Products
DOWSIL™ 791 Silicone Sealant	Tampa, FL	Nov. 2, 2023	Coastal Construction Products

Batch numbers were utilized to confirm that the samples were within shelf life.

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Results:

Property	Test Method	Results				Requirement
Physical Properties						
Loss of Adhesion or Cohesion (%) 3 specimens; 1.5" x 2"; Adhesive applied at: 1/16" thickness x 0.5" depth of bond x 2" length. Cure 7d @ 73.4±3.6°F & 50±5%RH; Rate = 2"/min; Movement = 200%; Hold @ 200% elongation for 1h	ASTM C1523	1	2	3	Avg.	
Dry/Room Temperature (%) Condition @ 23 ± 2°C;		0	0	0	0	Report
Initial tensile load (psi)		422.7	445.3	416.9	428.3	Report
Tensile load after 1h (psi)		296.2	313.3	295.8	301.8	Report
Water Immersion (%) Condition 24h @ 23 ± 2°C		0	0	0	0	Report
Initial (psi)		438.3	414.5	419.4	424.1	Report
After 1h (psi)		318.1	301.7	303.3	307.7	Report
Frozen (%) Condition 24h @ -18 ± 2°C		0	0	0	0	Report
Initial (psi)		424.3	423.5	412.6	420.1	Report
After 1h (psi)		304.0	303.2	294.0	300.4	Report
Heat (%) Condition 24h @ 70 ± 2°C		0	0	0	0	Report
Initial (psi)		462.1	455.0	477.5	464.9	Report
After 1h (psi)		306.1	302.7	314.4	307.8	Report
Artificial Weathering (%) UV/Con Exposure Cycle 1 for 2500h QUV Accelerated Weathering Tester Model QUV/Spray		0	0	0	0	Report
Initial (psi)		445.7	442.9	431.2	440.0	Report
After 1h (psi)		310.1	310.1	301.8	307.3	Report
Tear Propagation (NT, PT or T) NT: No Tear, PT: Partial Tear, T: Tear; 3 specimens; 1.5" x 2"; Cure 7d @ 73.4±3.6°F & 50±5%RH; Rate = 2"/min Cut = 5mm	ASTM C1523					
Dry/Room Temperature 23 ± 2°C		NT	NT	NT	NT	Report

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Property	Test Method	Results		Requirement
Ultimate Elongation 5 specimens; Die C; Cond. 72h @ 75±5°F & 50±5%RH; Test @ 73.4±3.6°F & 50±5%RH; Rate = 20±2 in./min;	ASTM D412 Method A	Average	Std. Dev.	
Ultimate Elongation (%)		434.6	16.7	≥ 400

Note(s):

Statement of Attestation:

The properties of the material tested were determined in accordance with and conform to the requirements set forth in the Sealant, Waterproofing and Restoration Institute's Product Validation Program for Pre-Cured Sealants. The laboratory test results presented in this report are representative of the material supplied.

Signed:



Anthony Catlett
 Manager

Date:

5/31/2024

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	04/1/2024	4	N/A
Revision 1	5/31/2024	4	Editorial Revision
Revision 2	6/3/2024	4	Changed Reporting to psi (from lbf)

END OF REPORT

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