



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Errol Bull
Momentive Performance Materials
260 Hudson River Road
Waterford, NY

Product Name: SCS2800 SilGlaze II* (Waterford, NY)

Project No.: MPM-136-02-01

Dates Tested: October 22, 2018 – January 2, 2019

Test Methods: ASTM C 920

Results Summary: Compliant: ASTM C 920 – Type S, Grade NS, Class 50, Use G, A

Purpose: Determine specification properties of the identified product for compliance with ASTM C 920: *Standard Specification for Elastomeric Joint Sealants*.

Test Methods: Testing was completed as described in STM C 920-11, -14, -14a, & -18: *Standard Specification for Elastomeric Joint Sealants*. Test methods assigned or referenced include ASTM C 510: *Standard Test Method for Staining and Color Change of Single or Multicomponent Joint Sealants*, ASTM C 639: *Standard Test Method for Rheological (Flow) Properties of Elastomeric Sealants*, ASTM C 661: *Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer*, ASTM C 679: *Standard Test Method for Tack-Free Time of Elastomeric Sealants*, ASTM C 719: *Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)*, ASTM C 793: *Standard Test Method for Effects of Laboratory Accelerated Weathering on Elastomeric Joint Sealants*, ASTM C 794: *Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants*, ASTM C 1183: *Standard Test Method for Extrusion Rate of Elastomeric Sealants* and ASTM C 1246: *Standard Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants After Cure*, and ASTM C 1442: *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>
SCS2800 SilGlaze II*	Waterford, NY	Dec. 28, 2017	Momentive Performance Materials

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Results:

Property	Test Method	Result ^{1,2}	Requirement
Rheological Properties (in) 1 specimen; 3/4" x 1/2" x 6"; Type II Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH; Cond. channel 2h @ Temp; Test Cond. 4h @ Temp	ASTM C 639		
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) 1 specimen; Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH; Specific Gravity of complete (ASTM D 1475) Test Cond. @ 73.4±3.6°F & 50±5%RH Test with plastic nozzle @ 40psi for 60s	ASTM C 1183 Procedure A		
Specific Gravity	ASTM D 1475	1.4	Report
Extrusion Rate		80	≥ 10
Application Life – Type M, Grade P ONLY (mL/min) 1 specimen; Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH; Test Cond. 3h @ 73.4±3.6°F & 50±5%RH Test with plastic nozzle @ 40psi for 60s	ASTM C 1183 Procedure A	NA	
Specific Gravity	ASTM D 1475		Report
Extrusion Rate 5 min after mixing			≥ 10
Hardness (hardness reading) 2 specimens; 5" x 1-1/2" x 1/4"; 3 measurement readings per specimen (6 total); Cond. 21d @ 73.4±3.6°F & 50±5%RH followed by; Test Cond. 73.4±3.6°F & 50±10%RH; Test Durometer, Type A-2	ASTM C 661		
Indentation Hardness		23	< 60

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Property	Test Method	Result ^{1,2}	Requirement
Effects of Heat Aging (%) 3 specimens; 5" x 1-1/2" x 1/4"; Cure 28d @ 73.4±3.6°F & 50±5%RH; Test Cond. 21d @ 158±3.6°F	ASTM C 1246		
Percent Weight Loss		1.2	≤ 7
Visual Examination for presence of cracks or chalking		Pass	No cracking or chalking
Tack-Free Time (h) 2 specimens; 3-3/4" x 1" x 1/8"; Test Cond. 73.4±3.6°F & 50±5%RH; Test @ 72h	ASTM C 679	0.5	≤ 72
Stain and Color Change [Pass/Fail] 3 specimens; 5" x 1-1/2" x 1/4"; Cond. 24h @ 73.4±3.6°F & 50±5%RH; Test 100h ASTM G 154, Cycle 1 Test 14d at 73.4±3.6°F & 50±5%RH w/ immersion daily	ASTM C 510		
Visual Inspection for stain and color change		Pass	No visible stain or color change
Adhesion and Cohesion Under Cyclic Movement (in ²) 3 specimens; 1/2" x 1/2" x 2": Movement ±50% 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 Anodized Aluminum substrate primed with SS4044P primer		0	≤ 1-1/2
Aggregate loss in bond and cohesion Glass substrate unprimed		0	≤ 1-1/2
Adhesion-in-Peel (lbf) 4 specimens; 1" x 1/16"; Cure 21d @ 73.4±3.6°F and 50±5%RH followed by; Immersed in distilled water for 7d @ 73.4±3.6°F Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM C 794		
Adhesion-in-Peel Anodized Aluminum substrate primed with SS4044P primer	<i>Pre-immersion</i>	28	≥ 5
	<i>Post-immersion</i>	17	
Adhesion-in-Peel Glass substrate unprimed	<i>Pre-immersion</i>	36	≥ 5
	<i>Post-immersion</i>	17	

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Property	Test Method	Result ^{1,2}	Requirement
Adhesion-in-Peel exposed to UV through glass (lbf) 4 specimens; 1" x 1/16"; Cure 21d @ 73.4±3.6°F and 50±5%RH followed by; Test Cond. 200h ASTM G 154, Cycle 1 Immersed in distilled water for 7d @ 73.4±3.6°F Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM C 794/ ASTM C1442		
Adhesion-in-Peel UV through glass unprimed		16	≥ 5
Effects of Accelerated Weathering [<i>Pass/Fail</i>] 3 specimens; 5" x 1-1/2" x 1/4"; Cure 21d @ 73.4±3.6°F and 50±5%RH; Test Cond. 250h ASTM G 154, Cycle 1; Test Cond. 24h @ -15±4°F Test 180° around 1/2" ø mandrel in 1s @ -15°F	ASTM C 793		
Visual Inspection for cracking after accelerated weathering		Pass	Pass
Visual Inspection for cracking 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 STM C 920-11, -14, -14a, & -18: *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 class of movement and for qualified substrates.

Signed: 

 Jason Simmons
 Director

Date: _____
 March 12, 2020

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	01/02/2019	4	NA
2	03/12/2020	4	Included references to additional versions of ASTM C 920

END OF REPORT

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