



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST RESULTS

Report for: Dow Corning Corporation
2200 W. Salzburg Rd.
Midland, MI 48686

Attention: Jason Sika

Product Name: Dow Corning® 902 RCS	Manufacturer: Dow Corning Corporation
Date Received: December 31, 2013	Source: Dow Corning Corporation
PRI-CMT Project No.: DCCO-023-02-01	Dates Tested: Jan. 2, 2014 – Mar. 3, 2014

Purpose: Determine specification properties for *Dow Corning Corporation's Dow Corning® 902 RCS* for compliance with ASTM C 920: *Standard Specification for Elastomeric Joint Sealants*. The product is a rapid cure, self leveling, multi-component silicone rubber sealant with a class of movement of +100%/-50%.

Test Methods: Testing was completed as described in ASTM C 920-11: *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*.

Product Sampling: Material for testing was submitted by Dow Corning Corporation. PRI-CMT received shipment of materials for testing on December 31, 2013. PRI-CMT feels material received is representative of the standard product for which recognition is sought.

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**Results of Testing:
 ASTM C 920**

Property	Test Method	Result	Requirement
Physical Property Requirements			
Rheological Properties [<i>dimensionless</i>] 1 specimen; Type III; 3/4" x 1/2" x 6"; Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH; Cond. channel 2h @ 40±3.6°F; Test Cond. 4h @ 40±3.6°F	ASTM C 639 Section 8.3	Pass	The product did self-level and exhibited 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		
Extrusion Rate		11.4	≥ 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		
Specific Gravity	ASTM D 1475	1.3	Report
Extrusion Rate		NA	≥ 10
Hardness (hardness reading) 2 specimens; 5" x 1-1/2" x 1/4"; 3 measurement readings per specimen (6 total); Cond. 14d @ 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		5	< 60
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		0.21	≤ 7
Visual Examination for presence of cracks or chalking		Pass	No cracking or chalking
Tack-Free Time [<i>Pass/Fail</i>] 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		
Tack-Free Time 50 min		Pass	Pass

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Property	Test Method	Result	Requirement
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" with backer rod Cure 14d @ 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 Mortar (Concrete) substrate primed with P5200		0	≤ 1-1/2
Adhesion-in-Peel (lbf) 4 specimens; 1" x 1/16"; Cure 14d @ 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 Mortar substrate primed with P5200		11.4	≥ 5
Adhesion-in-Peel exposed to UV through glass (lbf) 4 specimens; 1" x 1/16"; Cure 14d @ 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	NA	Not applicable for testing on a road sealant on Mortar only
Effects of Accelerated Weathering [Pass/Fail] 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 = Not Applicable. Application life testing 3hrs after mixing is not applicable for a rapid cure formulation. Similarly, adhesion in peel to glass after UV exposure is not applicable for products not seeking compliance with use G.

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Statement of Compliance:

The product tested complies with **ASTM C 920-11: *Standard Specification for Elastomeric Joint Sealants.***
The product was evaluated as Type M, Grade P, Class 100, Use T, M.

Signed: 

Jason Simmons
Director

Date: _____ May 2, 2016

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	05/02/2016	4	NA

END OF REPORT

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