

# DOW SILICONES CORPORATION TEST REPORT

# **SCOPE OF WORK**

ASTM C920 EVALUATION OF DOWSIL™ 756 SURFACE MODIFIED BUILDING SEALANT

# **REPORT NUMBER**

P5571.01-106-31 R2

# **TEST DATES**

12/28/22 - 05/31/23

ISSUE DATE REVISED DATE

09/07/23 10/09/23

# **RECORD RETENTION END DATE**

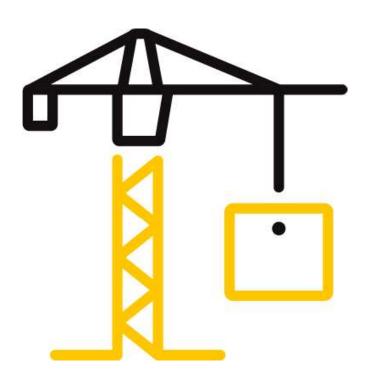
05/31/28

# **PAGES**

27

# **DOCUMENT CONTROL NUMBER**

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Report No.: P5571.01-106-31 R2

Date: 09/07/23 Revised Date: 10/09/23

#### **REPORT ISSUED TO**

# **DOW SILICONES CORPORATION**

2200 West Salzburg Road Auburn, Michigan 48611

#### **SECTION 1**

# **SCOPE**

Product: DOWSIL™ 756 Surface Modified Building Sealant

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Dow Silicones Corporation to evaluate DOWSIL™ 756 Surface Modified Building Sealant for compliance with ASTM C920, Standard Specification for Elastomeric Joint Sealants, for use as a Type S, Grade NS, Class 50, Use NT, Use M, Use G, Use A, and Use O sealant. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

**COMPLETED BY:** J. Rich Hammons **REVIEWED BY:** Dawn M. Chaney TITLE: Technician III TITLE: Technician Team Lead Materials Laboratory **Materials Laboratory SIGNATURE: SIGNATURE:** 10/09/23 DATE: 10/09/23 DATE:

JRH:dmc/kae

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# **SECTION 2**

# **SUMMARY OF TEST RESULTS**

TEST	REQUIREMENT	RESULT	PASS /
			FAIL
ASTM C639 -	Vertical: ≤4.8 mm	4.4°C: Vertical: 0.0 in. sag	Pass
Rheological	(≤3/16 in.) sag;	Horizontal: 0.0 in. sag (no	
Properties	Horizontal: no	deformation)	
	deformation	50°C: Vertical: 0.0 in. sag	Pass
		Horizontal: 0.0 in. sag (no	
		deformation)	
ASTM C1183 -	Extrusion Rate	48.6 ml/min	Pass
Extrusion Rate	≥10 ml/min		
ASTM C661 -	Shore A of >60	Shore A of 34	Pass
Hardness			
ASTM C1246 -	≤7% weight loss;	0.444% weight loss; no cracking	Pass
Effects of Heat Aging	No cracking or	or chalking	
	chalking		
ASTM C679 -	Tack-Free Time	4 hours and 55 minutes	Pass
Tack-Free Time	≤72 hours		
ASTM C510 -	No visible stain on top	Lab Conditions: No Stain	Pass
Stain and Color	surface of mortar	Water-Immersed: No stain	Pass
Change		UV-Exposed: No stain	Pass
ASTM C719 -	Total bond loss	Mortar with Primer:	Pass
Adhesion and	≤9 cm <sup>2</sup> (1-1/2 in <sup>2</sup> )	0.234 in <sup>2</sup> total bond loss	
Cohesion Under	per substrate	Glass:	Pass
Cyclic Movement		0.000 in <sup>2</sup> total bond loss	
		Aluminum:	Pass
		0.000 in <sup>2</sup> total bond loss	
		Kynar with Primer:	Pass
		0.000 in <sup>2</sup> total bond loss	

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TEST	REQUIREMENT	RESULT	PASS /
A CTN 4 CTO 4	4 1, 22, 2, 11	11.5	FAIL
ASTM C794 -	Average load ≥22.2 N	Mortar with Primer:	Pass
Adhesion-in-Peel	(≥5 lbf) and ≤25%	all specimens ≥5 lbf average load	
	adhesive bond loss for each individual	with 0% adhesive bond loss Glass:	Pass
	specimen	all specimens ≥5 lbf average load	Pass
	Specimen	with 0% adhesive bond loss for 3	
		specimens and 10% adhesive	
		bond loss for one specimen	
		Aluminum:	Pass
		all specimens ≥5 lbf average load	1 433
		with 0% adhesive bond loss	
		Kynar with Primer:	Pass
		all specimens ≥5 lbf average	1 433
		load with 0% adhesive bond loss	
		for 3 specimens and 10%	
		adhesive bond loss for one	
		specimen	
ASTM C794 -	Average load ≥22.2 N	Mortar with Primer:	Pass
Adhesion-in-Peel for	(≥5 lbf) and ≤25%	all specimens ≥5 lbf average	
Use G Exposed to UV	adhesive bond loss for	load with 0% adhesive bond loss	
Through Glass	each individual	Glass:	Pass
	specimen	all specimens ≥5 lbf average load	
		with 0% adhesive bond loss	
		Aluminum:	Pass
		all specimens ≥5 lbf average load	
		with 0% adhesive bond loss	
		Kynar with Primer:	Pass
		all specimens ≥5 lbf average load	
		with 0% adhesive bond loss	
ASTM C793 -	No cracks greater than	No cracks or changes observed	Pass
Effects of	shown in ASTM C793	after UV exposure and after bend	
Accelerated	Example 2 of Figure 1	test in cold temperature	
Weathering	after UV exposure and		
	Example 2 of Figure 2		
	after bend test in cold		
	temperature		

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