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DOW SILICONES CORPORATION
TEST REPORT

SCOPE OF WORK
AAMA 714 TESTING OF DOWSIL™ 791 SILICONE WEATHERPROOFING SEALANT

REPORT NUMBER
R1337.02-106-31 R0

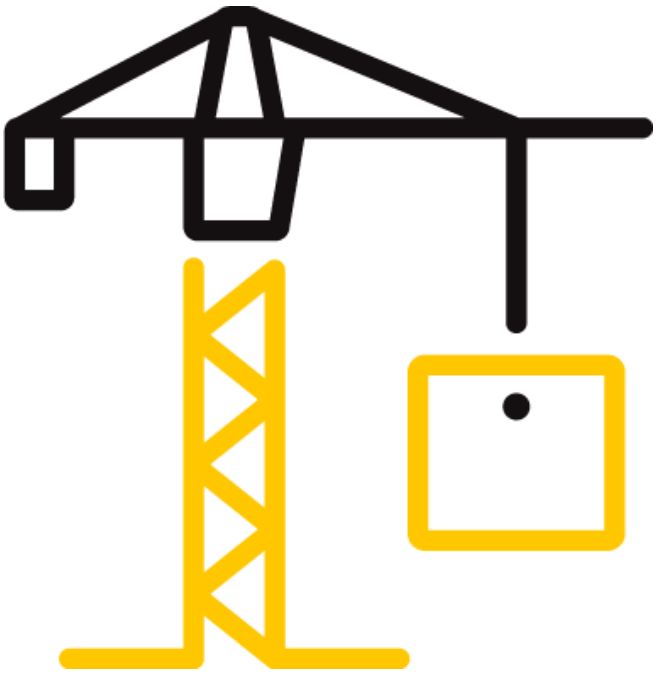
TEST DATES
04/15/24 - 04/04/25

ISSUE DATE
04/22/25

RECORD RETENTION END DATE
04/04/29

PAGES
30

DOCUMENT CONTROL NUMBER
RT-R-AMER-Test-2827 (07/12/22)



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TEST REPORT FOR DOW SILICONES CORPORATION

Report No.: R1337.02-106-31 R0
Date: 04/22/25

REPORT ISSUED TO

DOW SILICONES CORPORATION
2200 West Salzburg Road
Auburn, Michigan 48611

SECTION 1

SCOPE

Product: DOWSIL™ 791 Silicone Weatherproofing Sealant

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Dow Silicones Corporation to evaluate DOWSIL™ 791 Silicone Weatherproofing Sealant in accordance with AAMA 714 for Liquid Applied Flashing Properties. Results obtained are tested values and were secured by using the designated test methods. The testing indicated in this report was performed on unprimed substrates. 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:	Steven Marmolejos	**REVIEWED BY:**	Joseph M. Brickner
TITLE:	Technician I Materials Laboratory	**TITLE:**	Technical Manager Materials Laboratory
SIGNATURE:	Digitally Signed by: Steven Marmolejos	**SIGNATURE:**	Digitally Signed by: Joseph M. Brickner
DATE:	04/22/25	**DATE:**	04/22/25

SM:jmb/kae

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SECTION 2
TEST METHODS

The specimens were evaluated in accordance with the following:

AAMA 714-22, *Specification for Liquid Applied Flashing Used to Create a Water-Resistive Seal around Exterior Wall Openings in Building*

ASTM C794-18, *Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants*

ASTM G154-16, *Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials*

ASTM C1305-16, *Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane*

AATCC Test Method 127-2014, *Water Resistance: Hydrostatic Pressure Test*

SECTION 3
MATERIAL SOURCE

The materials were provided by Dow Silicones Corporation. The following was received in good condition on 3/22/24 and on 2/24/25:

- One (1), box of DOWSIL™ 791 Silicone Weatherproofing Sealant tubes, Lot #: H050NCB022

- One (1), box of DOWSIL™791 Silicone Weatherproofing Sealant Tubes, Lot #: H050O9E016 (used for AAMA 714 Section 5.3 mortar substrate retest)

Refer to the product description photos in Section 9. The materials were tested as received, except for preparing test specimens from the original materials. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Steven Marmolejos	Intertek B&C
Joseph M. Brickner	Intertek B&C

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SECTION 5
TEST PROCEDURES

All conditioning of test specimens and test conditions were at standard laboratory conditions, unless otherwise reported. Refer to the test related photos in Section 9. Calibration certificates are available on request.

AAMA 714 - Adhesive Strength to Substrate, Section 5.1 (per ASTM C794)
Peel adhesion strength was determined utilizing an Instron UTM (ICN: 005740) equipped with a 500N load cell (ICN: INT01424) and operating at a crosshead speed of 50 mm/min. The specimens were secured to the base of the UTM with the free end of the wire mesh strip restrained in a self-tightening cam-lock grip and pulled at a 180° angle. All dimension measurements were recorded using a digital caliper (ICN: INT03277). The substrates tested were: Concrete Masonry Units (CMU), Mortar Substrate (As defined in ASTM C1375), OSB (APA Exposure 1, Smooth side out), and Plywood (APA Grade Exposure 1). Average moisture content: Plywood - 7.8; OSB – 7.8.

AAMA 714 - Water Penetration Resistance, Section 5.2
Two sets of five specimens each were prepared by carefully driving two types of 2" length fasteners (one galvanized roofing nail and one zinc plated #8 pan head wood screw) through 3mm thick vinyl shims and the test membrane into the substrate, 1-2 inches apart. A 4-in. diameter, open-ended cylinder was placed on top of the specimen, completely encompassing the shims and fasteners. A watertight seal was then applied around the cylinder and allowed to cure for 24-72 hours. Specimens were placed atop individual containers to collect any leakage. For the first set of specimens, each cylinder was filled with distilled water to a depth of at least 1.2-in. (6.2 psf) and placed in an ESPEC chamber (ICN: INT01241) maintained at 4°C for a period of 24 hours. Observation was conducted and reported for any leaks. The substrate tested was Plywood (APA Grade Exposure 1). Average moisture content: Plywood - 7.2.

AAMA 714 - Water Penetration Resistance, Section 5.5.3
The second set of specimens was subjected to thermal cycling (per Section 5.5.3) following the sealing of the cylinders, then placed into an ESPEC chamber (ICN: INT01241) maintained at 4°C for a period of 24 hours.

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AAMA 714 - Accelerated Aging with UV Light Exposure, Section 5.3 (per ASTM G154, Cycle 1) followed by ASTM C794

Specimens were prepared in accordance with ASTM C794. The specimens were allowed to cure for 21 days at standard conditions 23 ±1°C (73 ±4°F) and 50 ±5% RH. The accelerated weathering was performed in a QUV Accelerated Weathering Tester (ICN: INT00387) equipped with UVA-340 lamps operating with an irradiance level of 0.89 $W/m^2 \cdot nm$ at 340 nm wavelength. The specimens were exposed for 336-hours to a continuous repeating cycle of 8-hours of light at 60 ±3°C black panel temperature followed by 4-hours of condensation at 50 ±3°C black panel temperature. Specimens were visually evaluated and then subjected to peel adhesion testing as specified in ASTM C794, Section 8.1. The substrates tested were: Concrete Masonry Units (CMU), Mortar Substrate (As defined in ASTM C1375), OSB (APA Exposure 1, Smooth side out), and Plywood (APA Grade Exposure 1). Average moisture content: Plywood - 9.3; OSB - 8.1.

AAMA 714 - Elevated Temperature Exposure, Section 5.4 (Level 3 @ 80°C) followed by ASTM C794

Specimens were prepared in accordance with ASTM C794. The specimens were allowed to cure for 21 days at standard conditions 23 ±1°C (73 ±4°F) and 50 ±5% RH. Specimens were exposed in an oven (ICN: Y002567) maintained at 80°C (176°F) for 7-days and subjected to peel adhesion testing as specified in ASTM C794, Section 8.1.

AAMA 714 - Thermal Cycling, Section 5.5 / Freeze-Thaw followed by ASTM C794

Specimens were prepared in accordance with ASTM C794. Specimens were aged by exposing them to 50°C for 8 hours in an oven (ICN: INT03118), followed by 16 hours in a freezer (ICN: INT000209). This cycle is repeated for a total of 10 cycles. At the completion of the 10 cycles, each specimen was subjected to peel adhesion testing as specified in ASTM C794, Section 8.1. The substrates tested were: Concrete Masonry Units (CMU), Mortar Substrate (As defined in ASTM C1375), OSB (APA Exposure 1, Smooth side out), and Plywood (APA Grade Exposure 1). Average moisture content: Plywood - 7.5; OSB - 7.5.

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AAMA 714 - Crack Bridging Ability, Section 5.6 (per ASTM C1305 - Category I - 1/8 in), followed by AATCC 127 Modified

The ability of the membrane to maintain integrity at low temperatures was determined utilizing a sealant extension compression machine (ICN: 005612) placed inside an Espec Environmental Chamber (ICN: 63435) maintained at -26°C. Five specimen assemblies were prepared with the flashing applied at 25-mil thickness to mortar blocks. The specimen assemblies were conditioned for 21 days at room temperature followed by 7 days in an air circulating oven (ICN: Y002765). The specimens underwent 10 cycles of 0.125-in. extension and back to zero movement at a rate of 0.125 in./hour. At the completion of the cycling, the membrane was examined for damage in the joint area of the substrates.

To evaluate the water resistive seal ability post cycling, a 24-in. tall by 1-1/2-in. I.D. PVC pipe was sealed across the 0.125-in. gap. A 0.125-in. shim was used to maintain the gap dimension during the 24-hour sealant cure time. The PVC pipe was filled with water to a height of 55 centimeters and maintained for a duration of 24 hours. Upon completion the specimens were observed for water penetration and leakage.

AAMA 714 - Water Immersion, Section 5.7 followed by ASTM C794

Three liquid applied flashing specimens were prepped as specified in ASTM C794, Section 7.1 to anodized aluminium substrates that are 2-in. wide by 15-in. long. Once cured, a peel adhesion test was performed as specified by ASTM C794, Section 8.1 over one half of the applied bond length (7.5-in.). After the initial peel adhesion test, the partially tested specimens were immersed in tap water at room temperature for 7 days. Once removed, a second peel adhesion test specified by C794 Section 8.1 was performed over the second half of the applied bond length (7.5-in.).

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SECTION 6
TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
AAMA 714 - Peel Adhesion, Section 5.1 Control, Section 5.3 UV Aged, Section 5.4 Oven Aged, Section 5.5 Freeze / Thaw	3 per substrate per test.	3-in. by 6-in.	Liquid applied flashing over Plywood, OSB, Mortar, CMU Substrates
AAMA 714 - Water Penetration Resistance, Section 5.2	2 sets of 5	6-in. by 6-in.	Liquid applied flashing over plywood
AAMA 714 - Crack Bridging, Section 5.6 and AATCC 127 Water Resistance	5	2-in. by 2-in.	Mortar blocks
AAMA 714 - Water Immersion, Section 5.7	3	2-in. by 15-in.	Anodized aluminum substrate

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SECTION 7
TEST RESULTS

AAMA 714 - Peel Adhesion Strength, Section 5.1

Control

SPECIMEN ID	WIDTH (mm)	AVERAGE PEEL STRENGTH (N)	AVERAGE PEEL FORCE (N/mm width)	FAILURE MODE	RESULTS
Plywood 1	25.69	36.2	1.41	Mixed	**Pass**
Plywood 2	26.21	70.1	2.67	Mixed	
Plywood 3	25.46	84.9	3.33	Cohesive 100%	
Average		**63.7**	**2.47**		
OSB 1	25.72	27.9	1.08	Adhesive 95%	**Pass**
OSB 2	26.42	37.7	1.43	Substrate	
OSB 3	25.92	36.4	1.40	Mixed	
Average		**34.0**	**1.31**		
Mortar 1	26.12	96.7	3.70	Cohesive	**Pass**
Mortar 2	25.27	95.1	3.76	Cohesive	
Mortar 3	25.57	80.8	3.16	Cohesive	
Average		**90.9**	**3.54**		
CMU 1	25.98	76.0	2.93	Cohesive	**Pass**
CMU 2	25.87	51.6	1.99	Adhesive	
CMU 3	26.29	152	5.78	Cohesive	
Average		**93.2**	**3.57**		

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AAMA 714 - Water Penetration Resistance, Section 5.2

Control

SPECIMEN NO.	OBSERVATIONS	RESULTS
1	No leaks observed on specimen	**Pass**
2		
3		
4		
5		

Post Thermal Cycling (Section 5.5.3)

SPECIMEN NO.	OBSERVATIONS	RESULTS
1*	No wrinkling, distortion, blistering, delamination, expansion, shrinkage or warpage found	**Pass**
2*		
3*		
4*		
5*		

***Retest results indicated.**

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AAMA 714 - UV Exposure, Section 5.3

SPECIMEN ID	OBSERVATIONS	RESULTS
Plywood	No visible, objectionable appearance on the surface No wrinkling, blistering, delamination, nor warpage or shrinkage of the flashing material	**Pass**
OSB		
Mortar		
CMU		

AAMA 714 - UV Exposure, Section 5.3 followed by ASTM C794

SPECIMEN ID	WIDTH (mm)	AVERAGE PEEL STRENGTH (N)	AVERAGE PEEL FORCE (N/mm width)	FAILURE MODE	RESULTS
Plywood 1	25.51	90.4	3.54	Cohesive	**Pass**
Plywood 2	25.98	48.0	1.85	Mixed	
Plywood 3	26.50	53.3	2.01	Mixed	
Average		**63.9**	**2.47**		
OSB 1	25.89	42.2	1.63	Substrate	**Pass**
OSB 2	25.68	26.0	1.01	Substrate	
OSB 3	25.90	28.4	1.10	Substrate	
Average		**32.2**	**1.25**		
Mortar 1*	25.89	62.6	95.7	Cohesive 100%	**Pass**
Mortar 2*	25.67	65.2	80.9	Cohesive 50%	
Mortar 3*	25.42	51.7	68.7	Cohesive 90%	
Average		**59.83**	**2.33**		
CMU 1	25.50	65.1	2.55	Cohesive	**Pass**
CMU 2	26.10	90.5	3.47	Cohesive	
CMU 3	25.93	47.7	1.84	Cohesive	
Average		**67.8**	**2.62**		

***Retest results indicated. Retest was performed using a different lot of Dowsil™ 791 Silicone Weatherproofing Sealant due to expiration of the previously tested materials**

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AAMA 714 - Elevated Temperature Exposure, Section 5.4

SPECIMEN ID	OBSERVATIONS	RESULTS
Plywood	No visible changes in appearance. No wrinkling, distortion, blistering, delamination, expansion, shrinkage or warpage of the liquid applied flashing	**Pass**
OSB		
Mortar		
CMU		

AAMA 714 - Elevated Temperature Exposure, Section 5.4 followed by ASTM C794

SPECIMEN ID	WIDTH (mm)	AVERAGE PEEL STRENGTH (N)	AVERAGE PEEL FORCE (N/mm width)	FAILURE MODE	RESULTS
Plywood 1	25.43	50.5	1.99	Mixed	**Pass**
Plywood 2	25.61	66.9	2.61	Mixed	
Plywood 3	25.21	44.5	1.77	Mixed	
Average		**54.0**	**2.12**		
OSB 1	24.24	51.3	2.12	Mixed	**Pass**
OSB 2	24.19	17.4	0.72	Adhesive	
OSB 3	25.46	19.6	0.77	Adhesive	
Average		**29.4**	**1.20**		
Mortar 1	24.14	39.8	1.65	Cohesive	**Pass**
Mortar 2	25.05	58.2	2.32	Adhesive	
Mortar 3	25.40	41.4	1.63	Adhesive	
Average		**46.5**	**1.87**		
CMU 1	25.49	76.8	3.01	Adhesive	**Pass**
CMU 2	25.26	78.2	3.10	Cohesive	
CMU 3	25.82	81.8	3.17	Cohesive	
Average		**78.9**	**3.09**		

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AAMA 714 - Thermal Cycling / Freeze-Thaw, Section 5.5

SPECIMEN ID	OBSERVATIONS	RESULTS
Plywood	No visible changes in appearance No wrinkling, distortion, blistering, delamination, expansion, shrinkage or warpage of the liquid applied flashing	**Pass**
OSB		
Mortar		
CMU		

AAMA 714 - Thermal Cycling / Freeze Thaw, Section 5.5 followed by ASTM C794

SPECIMEN ID	WIDTH (mm)	AVERAGE PEEL STRENGTH (N)	AVERAGE PEEL FORCE (N/mm width)	FAILURE MODE	RESULTS
Plywood 1	25.96	73.4	2.83	Cohesive	**Pass**
Plywood 2	26.83	64.1	2.39	Cohesive	
Plywood 3	25.82	79.7	3.09	Cohesive	
Average		**72.4**	**2.77**		
OSB 1	26.34	16.9	0.64	Adhesive	**Pass**
OSB 2	26.51	56.8	2.14	Cohesive 50%	
OSB 3	26.44	20.7	0.78	Adhesive	
Average		**31.5**	**1.19**		
Mortar 1	25.48	32.4	1.27	Adhesive 80%	**Pass**
Mortar 2	25.38	72.5	2.86	Cohesive	
Mortar 3	26.27	85.8	3.27	Cohesive	
Average		**63.6**	**2.46**		
CMU 1	25.71	73.4	2.85	Cohesive	**Pass**
CMU 2	25.7.0	85.1	3.31	Cohesive	
CMU 3	25.57	60.0	2.35	Cohesive	
Average		**72.8**	**2.84**		

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AAMA 714 – Crack Bridging, Section 5.6

SPECIMEN NO.	CYCLES COMPLETED	FILM CRACKING	SUBSTRATE CRACKING	OBSERVATIONS
1	10	No	No	No visible deleterious effects
2				
3				
4				
5				
SPECIMEN NO.	**EXPOSURE DURATION**	**WATER RESISTANCE OBSERVATIONS (AATCC 127 MODIFIED)**		**RESULTS**
1	24 Hours	No signs of defects on the surface nor water leakage observed		**Pass**
2				
3				
4				
5				

AAMA 714 - Water Immersion, Section 5.7 / ASTM C794

SPECIMEN ID	WIDTH (mm)	AVERAGE PEEL STRENGTH (N)	AVERAGE PEEL FORCE (N/mm width)	FAILURE MODE	RESULTS
Control 1	25.81	130	5.02	Cohesive	**Pass**
Control 2	25.10	121	4.81	Cohesive	
Control 3	26.14	129	4.93	Cohesive	
Average		**127**	**4.93**		
Exposed 1	25.40	121	4.75	Cohesive	**Pass**
Exposed 2	26.55	104	3.91	Cohesive	
Exposed 3	25.89	130	5.03	Cohesive	
Average		**118**	**4.57**		

AAMA 714 - Water Immersion, Section 5.7

SPECIMEN NO.	OBSERVATIONS	RESULTS
1	There are no signs of any changes in the appearance of the flashing material	**Pass**
2		
3		

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SECTION 8
CONCLUSION

The DOWSIL™ 791 Silicone Weatherproofing Sealant met the specified AAMA 714 performance requirements for the testing performed in this report.

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SECTION 9
PHOTOGRAPHS

Photo No. 1
Material as Received

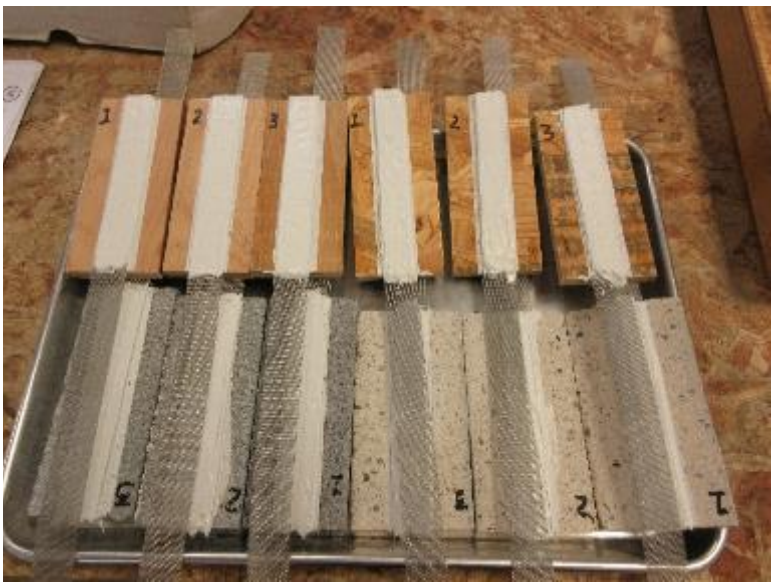

Photo No. 2
Specimens Prepped for Adhesive Strength Test

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Photo No. 3
Adhesive Strength Test Setup

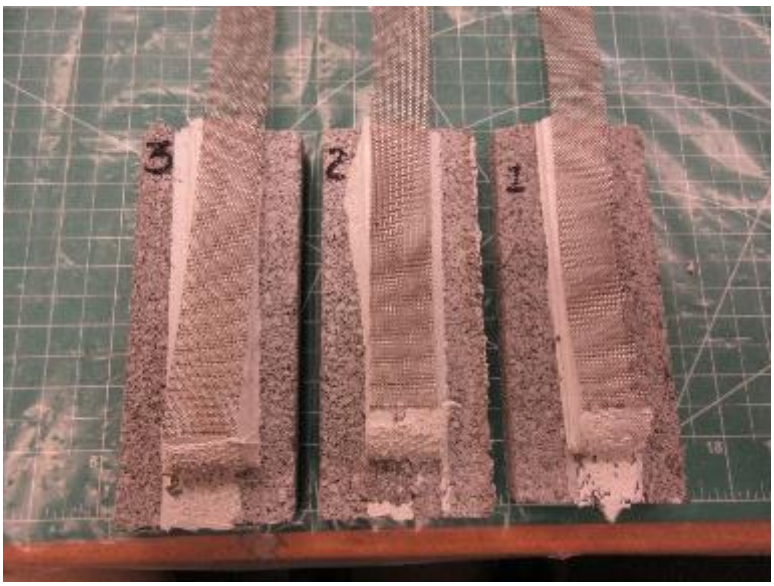

Photo No. 4
Typical Test Results from Adhesive Strength Test

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Photo No. 5
Set of Specimen for Water Penetration Test 5.2

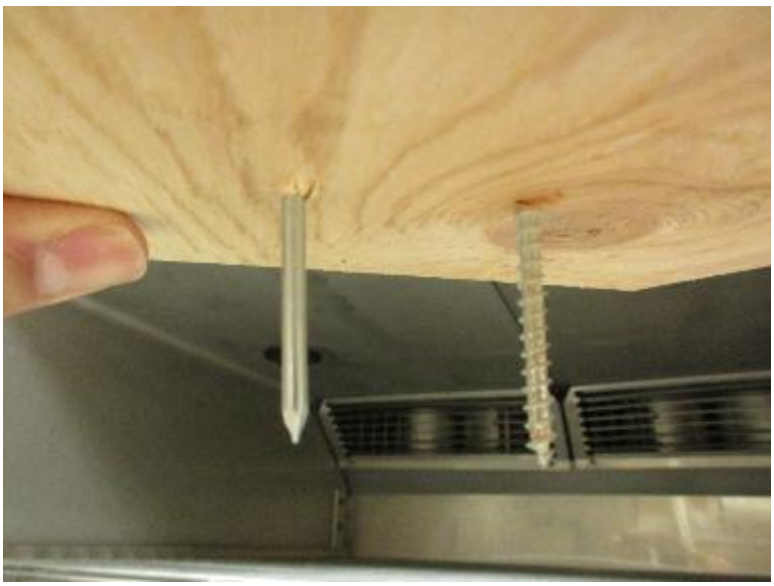

Photo No. 6
Typical Test Result for Water Penetration Test 5.2

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Photo No. 7
Set of Specimens After Thermal Cycling (5.5.3) Ready for Water Penetration Test 5.2

Photo No. 8
Thermal Cycling (5.5.3) Specimen Before Entering ESPEC for 24 Hours.

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Photo No. 9
Thermal Cycling Specimens (5.5.3) After 24 Hours in ESPEC Chamber

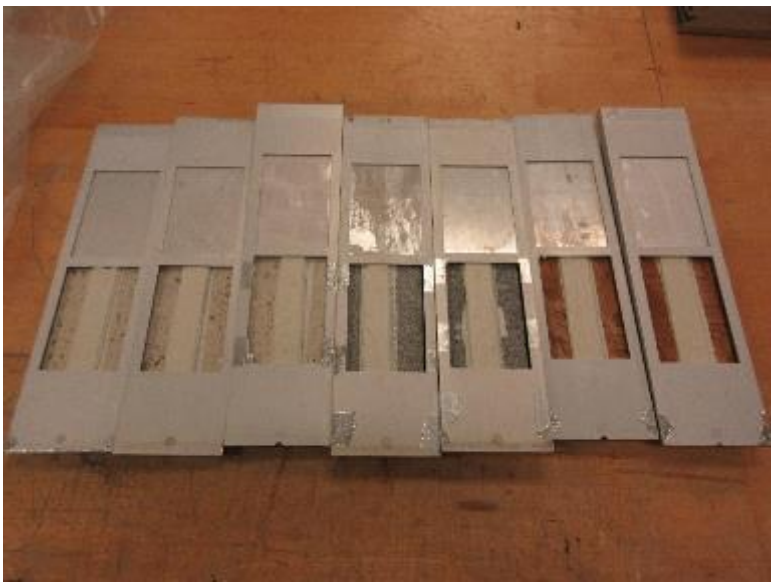

Photo No. 10
Specimens After 336 Hours of Accelerated Aging UV Exposure Section 5.3

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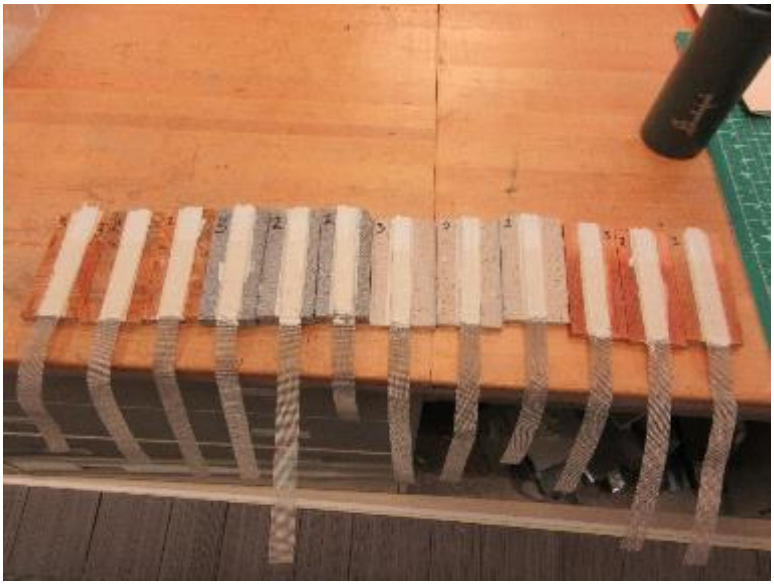

Photo No. 11
Specimens Prior to Adhesive Strength Test for Section 5.3

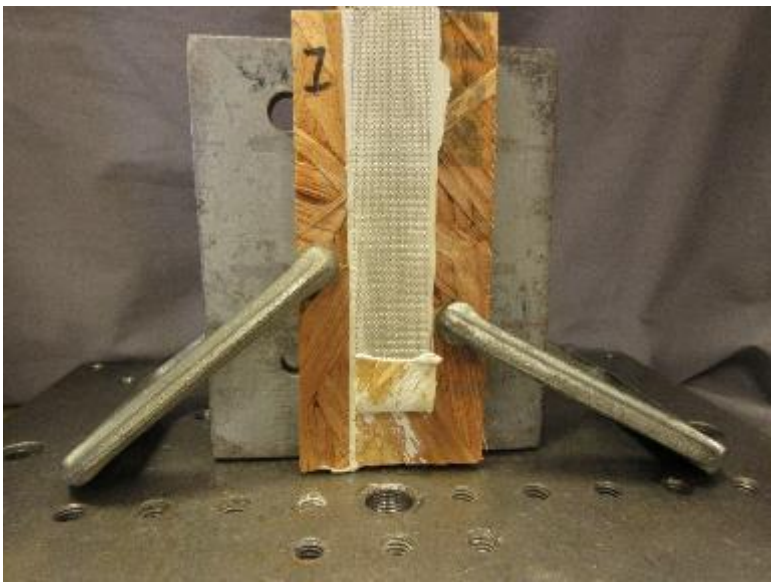

Photo No. 12
Typical Test Result from Adhesive Strength Test for Section 5.3

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Photo No. 13
Specimens During 7 Day Level I Conditioning

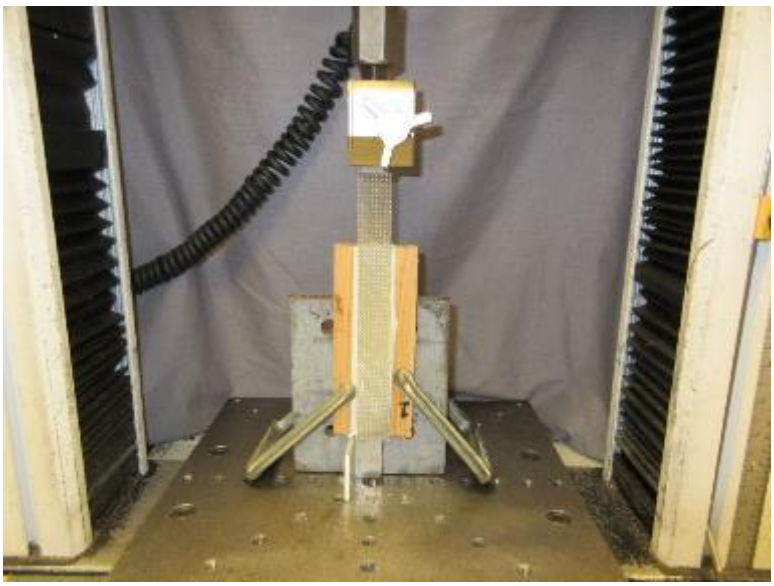

Photo No. 14
Adhesive Strength Test After 7 Day Level I Exposure

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Photo No. 15
Adhesive Strength Test Results (Section 5.4)

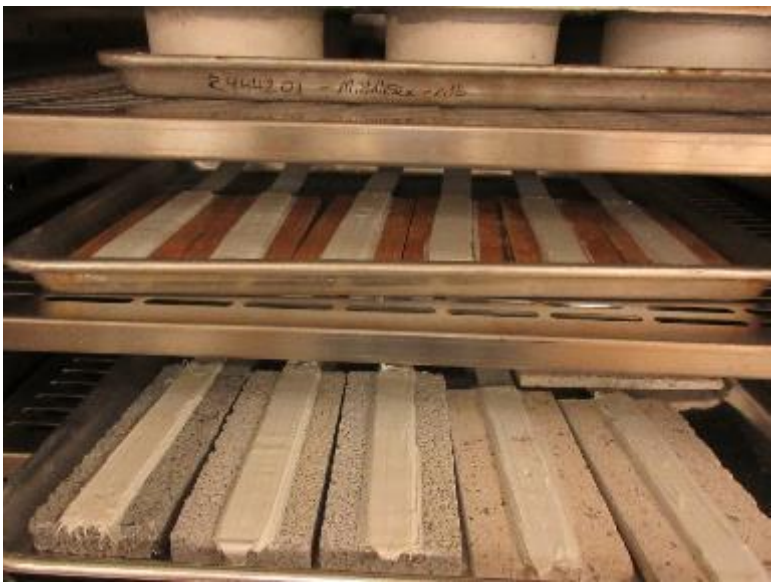

Photo No. 16
Specimens During 8 Hour Freeze-Thaw Cycle at 50°C (Section 5.5)

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Photo No. 17
After the Freeze-Thaw Cycle, Typical Test Result from Adhesive Strength Test

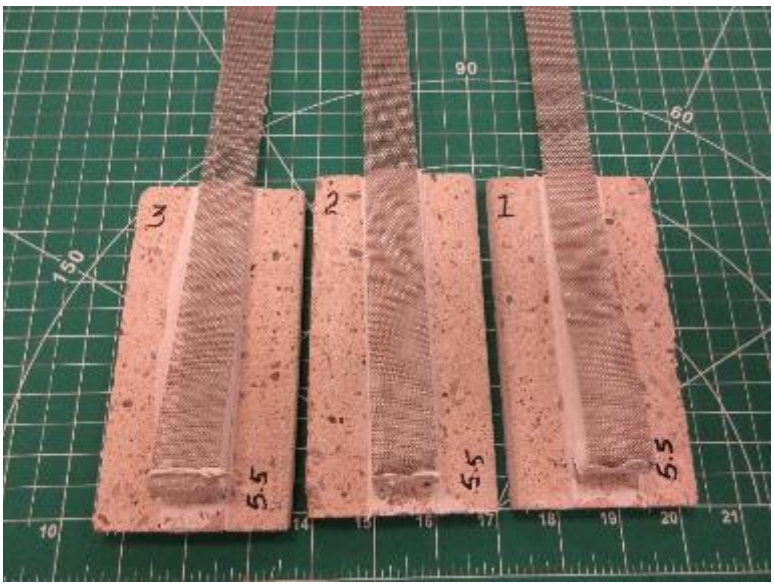

Photo No. 18
Adhesive Strength Test Result (Section 5.5)

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Photo No. 19
Crack Bridge Specimens Prepped. (Section 5.6)

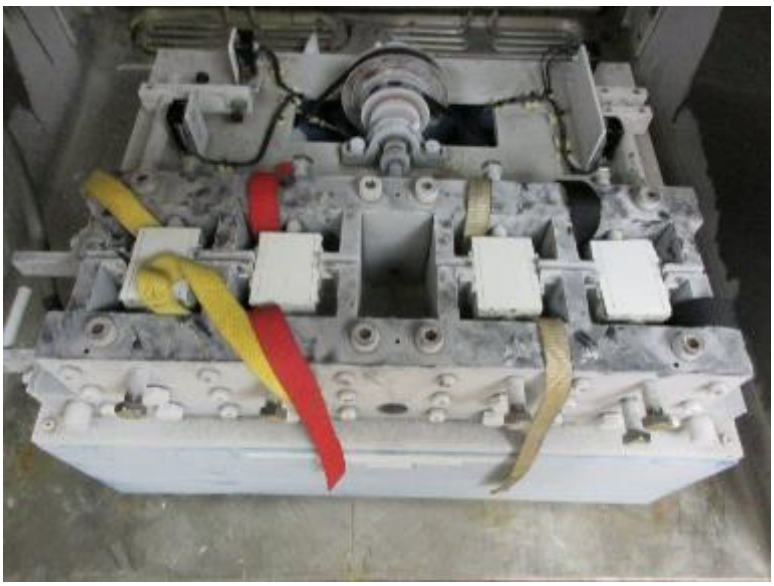

Photo No. 20
During Testing (Category I)

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Photo No. 21
After Completing 10 Cycles, Water Holdout

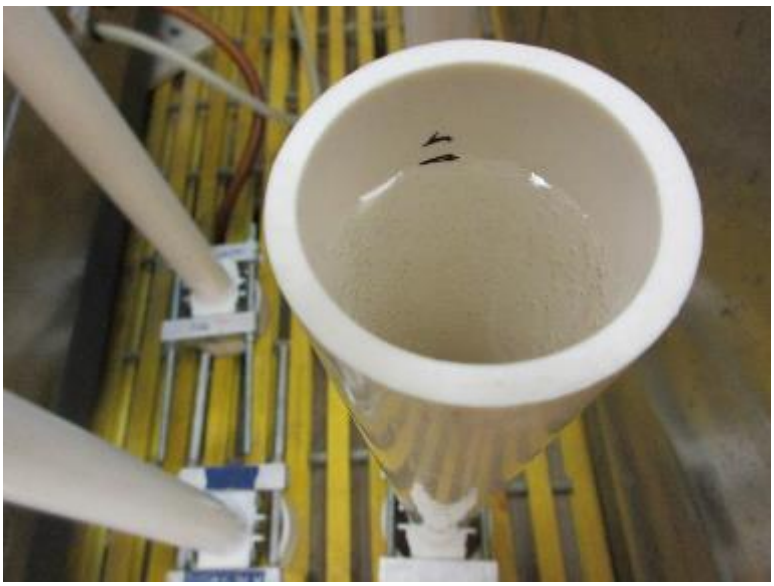

Photo No. 22
Typical Result of Water Holdout Test (5.6)

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TEST REPORT FOR DOW SILICONES CORPORATION
Report No.: R1337.02-106-31 R0
Date: 04/22/25

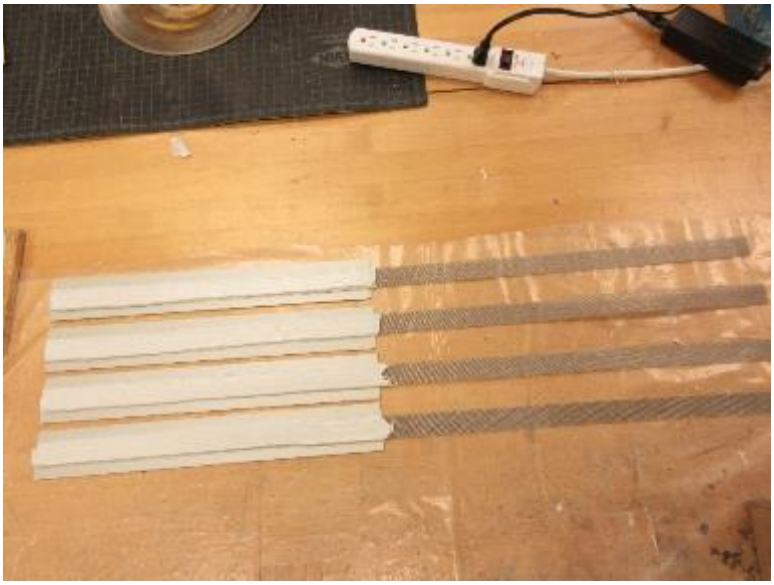

Photo No. 23
Prepped Specimens for Water Immersion (Section 5.7)

Photo No. 24
Test Setup for Section 5.7

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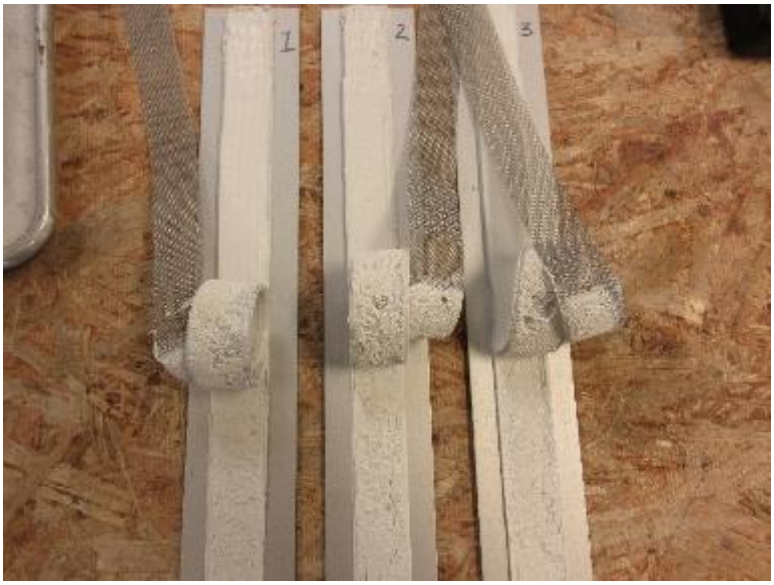

Photo No. 25
Results of First Half of Adhesion Strength Test

Photo No. 26
Results of Second Half of Adhesion Strength Test

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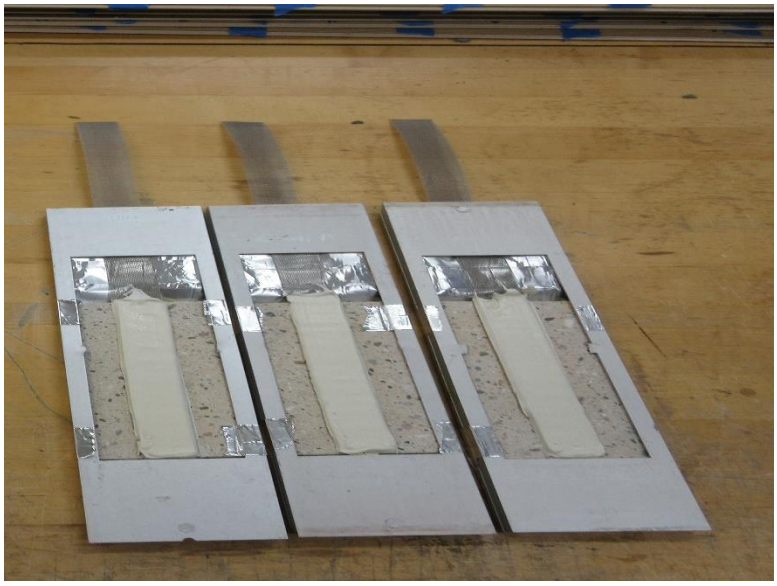

Photo No. 27
Specimens Adhesion Peels 5.3 Retest (Unprimed) Post 336 Hr. UV Exposure

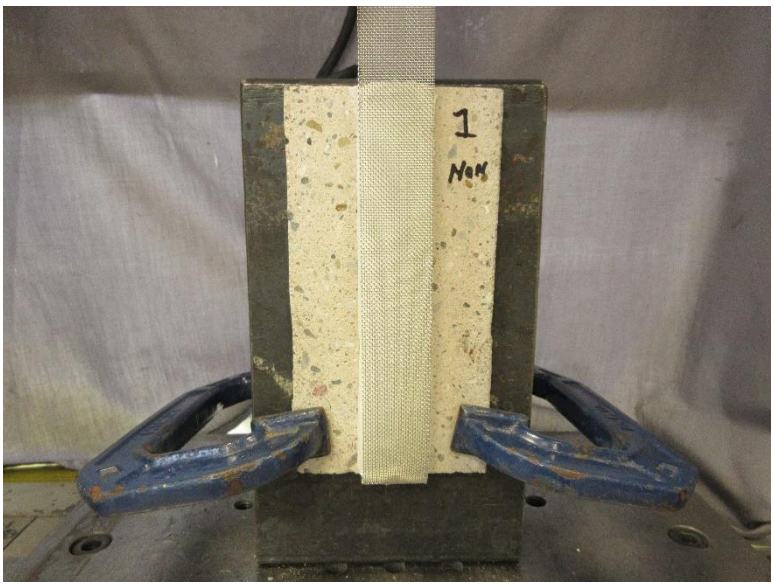

Photo No. 28
Adhesion Peels 5.3 Retest Specimen(Unprimed) Prior to Test

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Date: 04/22/25

Photo No. 29
Unprimed Specimen Test Results of Adhesion Peels 5.3 Retest

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SECTION 10
REVISION LOG

REVISION #	DATE	PAGES	REVISION
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