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DOW SILICONES CORPORATION
TEST REPORT

SCOPE OF WORK
ASTM C719 CYCLIC MOVEMENT AT ±25% EVALUATION OF DOWSIL™ 983 STRUCTURAL GLAZING SEALANT FOR COMPLIANCE WITH SWRI SEALANT VALIDATION PROGRAM

REPORT NUMBER
S5944.03-106-31 R0

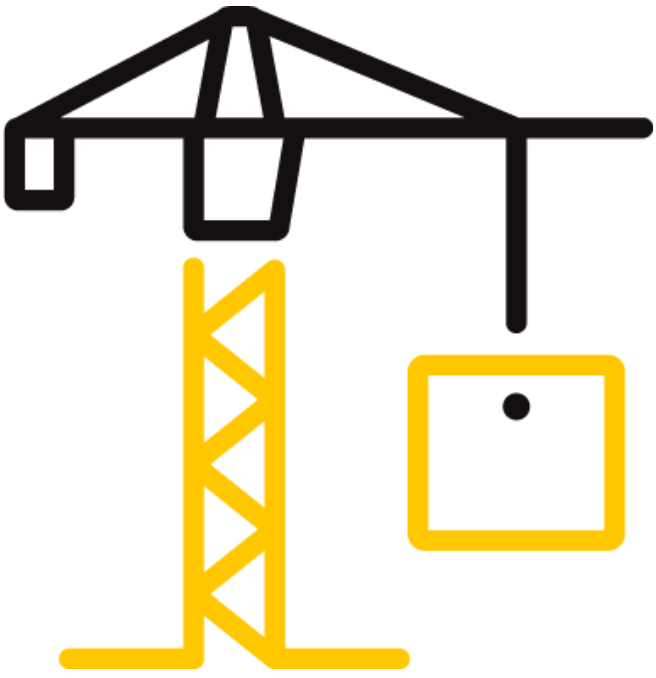
TEST DATES
11/17/25 - 01/22/26

ISSUE DATE
02/05/26

RECORD RETENTION END DATE
01/22/31

PAGES
13

DOCUMENT CONTROL NUMBER
RT-R-AMER-Test-2827 (07/12/22)
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TEST REPORT FOR DOW SILICONES CORPORATION
Report No.: S5944.03-106-31 R0
Date: 02/05/26

REPORT ISSUED TO

DOW SILICONES CORPORATION
2200 West Salzburg Road
Auburn, Michigan 48611

SECTION 1

SCOPE

Product: DOWSIL™ 983 Structural Glazing Sealant

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Dow Silicones Corporation to evaluate DOWSIL™ 983 Structural Glazing Sealant in accordance with ASTM C719 for SWRI compliance. Results obtained are tested values and were secured by using the designated test method. 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.

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For INTERTEK B&C:

COMPLETED BY:	J. Rich Hammons	**REVIEWED BY:**	Dawn M. Chaney
TITLE:	Technician Team Lead Materials Laboratory	**TITLE:**	Laboratory Supervisor Materials Laboratory
SIGNATURE:	Digitally Signed by: James Hammons	**SIGNATURE:**	Digitally Signed by: Dawn M. Chaney
DATE:	02/05/26	**DATE:**	02/05/26

JRH:dmc/kae

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SECTION 2
TEST METHOD

The specimens were evaluated in accordance with the following:

> **ASTM C719-22**, *Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants under Cyclic Movement (Hockman Cycle)*

SECTION 3
MATERIAL SOURCE

The materials were selected and specimens were prepared at Dow Silicones Corporation located in Midland, Michigan. Specimen preparation was witnessed by Intertek B&C personnel. The sealant was manufactured at the Dow Silicones (Elizabeth Town, Kentucky) Co., Ltd. plant. Batch numbers for DOWSIL™ 983 2-part sealant are Base: H050P36000 and C/A: H050P7G044 Black.

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 five years from the test completion date.

SECTION 4
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Austin Hlinka	Dow Silicones Corporation
J. Rich Hammons	Intertek B&C
Dawn M. Chaney	Intertek B&C

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SECTION 5
TEST PROCEDURE

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.

ASTM C719 - Adhesion and Cohesion Under Cyclic Movement
Three specimens each of aluminum primed with DOWSIL™ 1200 OS, Kynar primed with DOWSIL™ Primer C-OS, unprimed aluminum, and unprimed glass substrates were prepared by sandwiching 2 pieces of substrate around 1/2" wide ptfe spacers creating a 1/2" deep by 2" long cavity then filling it with sealant. The sealant was allowed to cure for a period of 14 days at standard lab conditions. The ptfe spacers were removed after the second week.

At the conclusion of the curing period, the specimens were submerged in room temperature distilled water for a period of seven days, and then each specimen was hand flexed twice to about 60° to check the bond. The specimens were compressed to the minimum dimension of 0.375" and placed in an oven at 70°C for seven days.

Within 24 hours from removal of the oven exposure, the specimens were placed into a Series 500 Horizontal Sealant Tester (ICN: 005886) and compressed to a gap dimension of 0.375" then expanded to a gap dimension of 0.625" and returned to their normal dimension of 0.500" at a rate of 1/8" per hour. This process of ±25% movement was repeated for a total of ten cycles at standard laboratory conditions.

Following the ten cycles, the specimens were again checked for bond loss. Each specimen was compressed and clamped to its minimum dimension of 0.375" and placed in an oven maintained at 70°C for a period of 16 to 20 hours. Upon completion of this timeframe, the specimens were removed from the oven, the clamps were removed, and the specimens were allowed to return to room temperature over a period of two to three hours. Each specimen was placed in the Series 500 Horizontal Sealant Tester and expanded from the 0.375" gap dimension to the 0.625" gap dimension while in a -29°C environment maintained by ESPEC environmental chamber (ICN: 63435). Once the specimens attained this dimension, they were removed from the device and allowed to return to room temperature for a period of two hours at the 0.625" gap. A check for bond loss was performed, and the process was repeated for a total of ten cycles. After the last cycle, a final bond loss evaluation was conducted.

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SECTION 6
TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ASTM C719 - Cyclic Movement	3 each substrate	1/2" x 1/2" x 2"	Aluminum primed with DOWSIL™ 1200 OS
			Kynar - Primed with DOWSIL™ Primer C-OS
			Aluminum
			Glass

SECTION 7
TEST RESULTS

ASTM C719 - Adhesion and Cohesion Under Cyclic Movement

SUBSTRATE	SPECIMEN NO.	ROOM TEMP CYCLING BOND LOSS OBSERVATIONS	-29°C TEMP CYCLING BOND LOSS OBSERVATIONS
Aluminum with Primer	1	No Bond Loss Observed	Partial Separation from Each Side
	2	Small Bond Loss Observed	Partial Separation from One Side
	3	No Bond Loss Observed	Partial Separation from Each Side
Kynar with Primer	1	No Bond Loss Observed	No Bond Loss Observed
	2	Small Bond Loss Observed	No Bond Loss Observed
	3	No Bond Loss Observed	Partial Separation from Each Side
Aluminum	1	Small Bond Loss Observed	Partial Separation from Each Side
	2	No Bond Loss Observed	Partial Separation from Each Side
	3	Small Bond Loss Observed	Partial Separation from Each Side
Glass	1	No Bond Loss Observed	Partial Separation from One Side
	2	No Bond Loss Observed	Partial Separation from One Side
	3	No Bond Loss Observed	Partial Separation from Each Side

SECTION 8
CONCLUSION

The aluminum (primed with DOWSIL™ 1200 OS), Kynar (primed with DOWSIL™ Primer C-OS) specimens, aluminum specimens, and glass specimens met the SWRI Validation Program requirement.

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SECTION 9
PHOTOGRAPHS

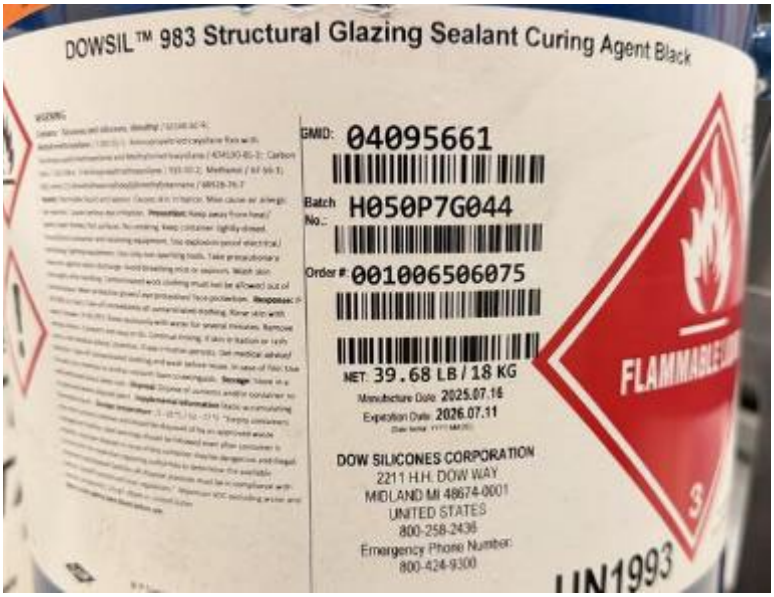


Photo No. 1
Material, Curing Agent Component



Photo No. 2
Material, Base Component

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Photo No. 3
DOWSIL™ Primer C-OS

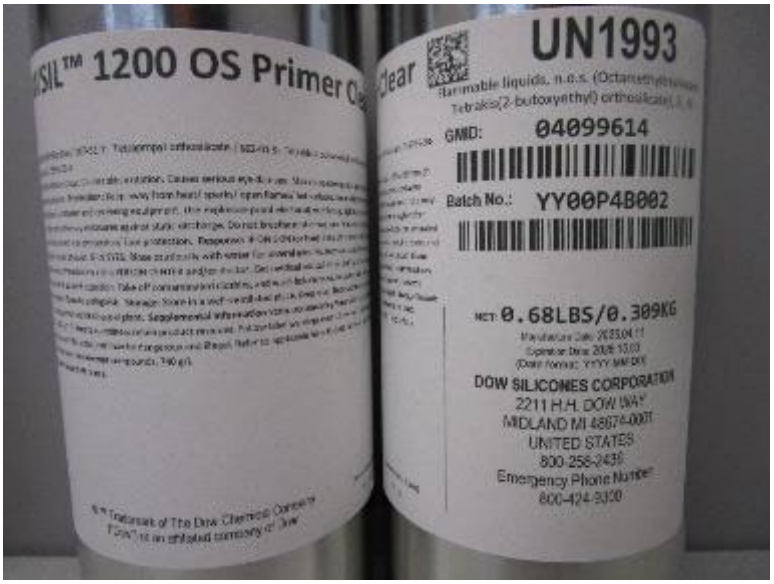


Photo No. 4
DOWSIL™ 1200 OS

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Photo No. 5
ASTM C719 Specimens Prior to Test



Photo No. 6
Specimens in Hockman Cycler

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Photo No. 7
Aluminum with Primer Specimens Room Temperature Bond Loss Observations

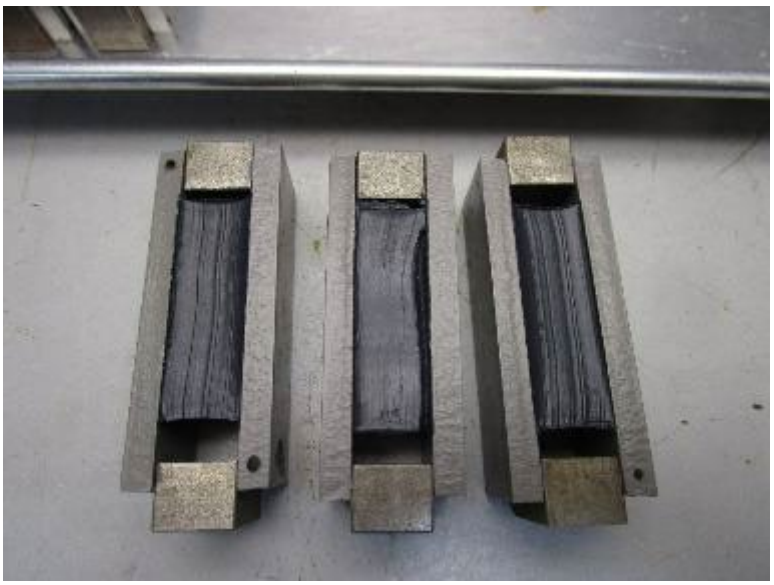


Photo No. 8
Kynar with Primer Specimens Room Temperature Bond Loss Observations

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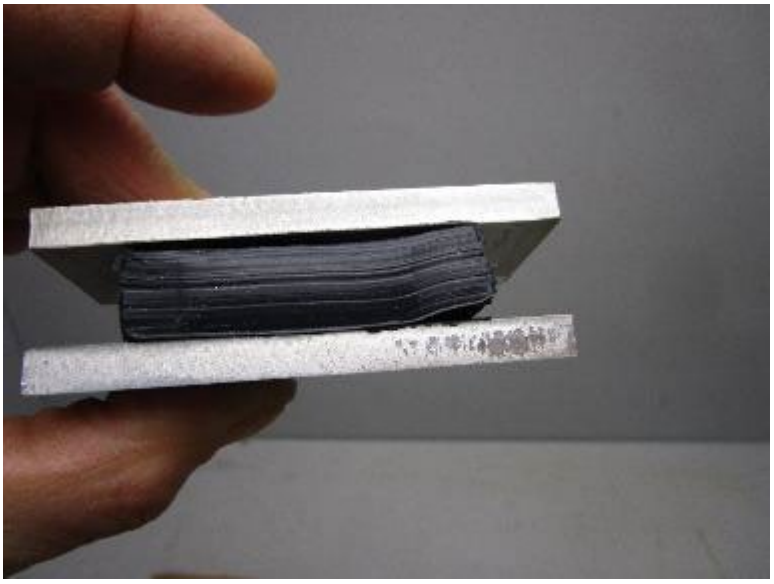


Photo No. 9
Aluminum Specimens Room Temperature Bond Loss Observations



Photo No. 10
Aluminum with Primer Specimens
-29°C Temperature Bond Loss Observations

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Photo No. 11
Kynar with Primer Specimens
-29°C Temperature Bond Loss Observations

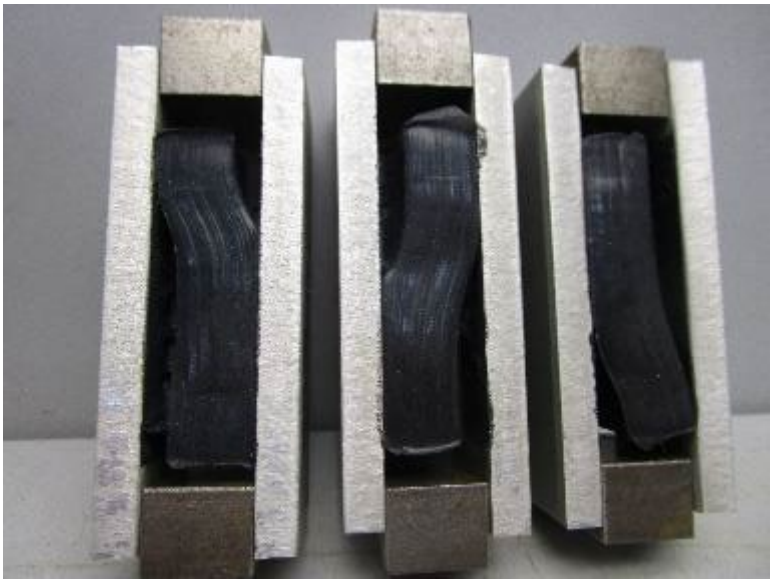


Photo No. 12
Aluminum Specimens
-29°C Temperature Bond Loss Observations

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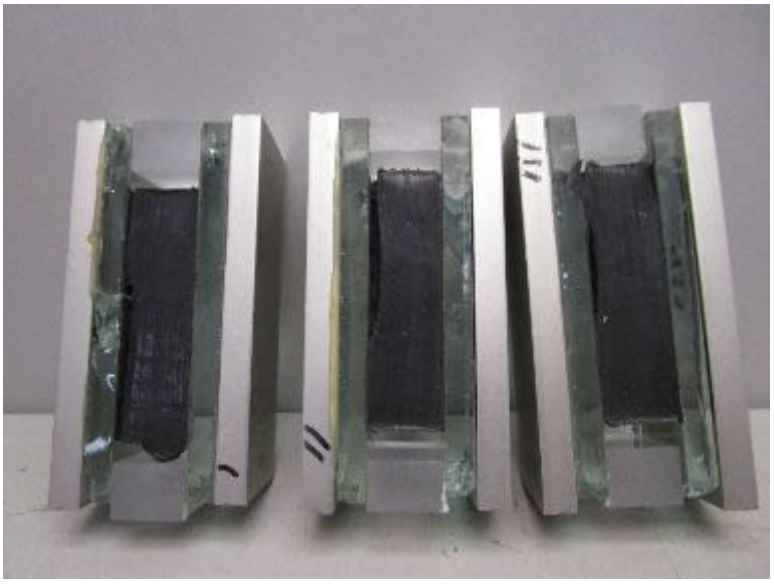


Photo No. 13
Glass Specimens
-29°C Temperature Bond Loss Observations



Photo No. 14
All Specimens at Test Completion

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SECTION 10
REVISION LOG

REVISION #	DATE	PAGES	REVISION
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