



# PRI Construction Materials Technologies LLC

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## Laboratory Test Report

**Report for:** Kelly Allore  
Dow Silicones Corporation  
2200 West Salzburg Road  
Midland, Michigan 48686

**Product Name:** DOWSIL™ 714

**Project No.:** 2107T0045

**Date(s) Tested:** May 2, 2023 - Jun. 12, 2023

**Test Method(s):** AAMA 714

**Results Summary:** Compliant with:  
- AAMA 714-19: Level 3 (176°F), Category I (1/8")

**Purpose:** Evaluate the performance properties of DOWSIL™ 714 in accordance with AAMA 714: *Voluntary Specification for Liquid Applied Flashing Used to Create a Water-Resistive Seal Around Exterior Wall Openings in Buildings.*

Product is a single component silicone sealant for weatherproofing at window and door openings and other building transitions.

**Test Methods:** Testing was completed as required in AAMA 714-19: *Voluntary Specification for Liquid Applied Flashing used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings.* Test methods assigned or referenced include AAMA 711-13: *Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products*, ASTM C 794-18: *Standard Test Method for Adhesion-in Peel of Elastomeric Joint Sealants*, ASTM C 1305-16: *Standard Test Method for Crack Bridging Ability of Liquid Applied Waterproofing Membrane*, ASTM E 96/E96M-16: *Standard Test Methods for Water Vapor Transmission of Materials*, ASTM G 154-16: *Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials*, and ICC-ES AC212 4-2018: *Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over Exterior Sheathing.*

**Sampling:** The following materials were sampled remotely by PRI.

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
DOWSIL™ 714	Shepherdsville, KY	Apr. 21, 2023	PRI

2107T0045

The laboratory test results presented in this report are based on the material(s) supplied and tested. The results, and by extension any statements of conformity, opinions, or interpretations, apply the "simple acceptance" decision rule for measurement uncertainty accounting. This report is for the exclusive use of stated client. Only the client is authorized to permit copying or distribution of this report and then only in its entirety. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

**Results:**

**AAMA 714-19**

Property	Test Method	Result	Requirement
<b>Test Requirements</b>			
Adhesive Strength to Substrates (lbf) 3 specimens; 1" x 1/16"; Cure 7d @ 73.4±3.6°F & 50±5%RH followed by; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM C 794		
Concrete Masonry Units (CMU) primed with Dowsil Primer P		14	≥ 5
Cement Mortar Slabs primed with Dowsil Primer P		12	≥ 5
Plywood		13	≥ 5
OSB		12	≥ 5
Moisture content prior to application (%)		17	Report
Water Penetration Around Nails [Pass/Fail] 5 specimens; 4" x 4" (applied to plywood); Two 1-1/4" roofing nails placed near center of specimen; Cond. 24h @ standard conditions; Test 1.2inw.c. @ 40±5°F for 24h; Visual Inspection for water infiltration	ASTM D 1970 Section 7.9	Pass	Pass
Bottom Can; [Water/No Water]		No Water	No Water
Nail Shank; [Water/No Water]		No Water	No Water
Underside of Plywood; [Water/No Water]		No Water	No Water
Water Penetration Around Nails [Pass/Fail] 5 specimens; 4" x 4" (bonded to plywood); 1/16" WFT Two 1-1/4" roofing nails placed near center of specimen; Cond. 24h @ 73.4±3.6°F & 50±5% RH followed by; 10 cycles; 8h @ 120±2°F followed by 16h @ -40±2°F Test 1.2inw.c. @ 40±5°F for 24h; Visual Inspection for water infiltration	ASTM D 1970 Section 7.9	Pass	Pass
Bottom Can; [Water/No Water]		No Water	No Water
Nail Shank; [Water/No Water]		No Water	No Water
Underside of Plywood; [Water/No Water]		No Water	No Water
Accelerated Aging (lbf/in) 3 specimens; 1" x 1/16"; Cement Mortar Slab Cond. vertically 24h @ 73.4±3.6°F; Cond. 336h ASTM G 154 UVA Cycle 1; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM G 154 ASTM C 794	33	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance

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2107T0045

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Property	Test Method	Result	Requirement
Elevated Temperature (lbf/in) 3 specimens; 1" x 1/16"; Cement Mortar Slab Cond. vertically 24h @ 73.4±3.6°F; Cond. 7d @ 80°C; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 711 ASTM C 794 Level 3	12	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Thermal Cycling (lbf/in) 3 specimens; 1" x 1/16"; Cement Mortar Slab Cond. vertically 24h @ 73.4±3.6°F; Cond. 8h @ 50±1°C followed by; Cond. 16h @ -40±1°C: total of 10 Cycle; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 711 ASTM C 794	14	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Crack Bridging Ability, Category I [Pass/Fail] 5 specimens; 51mm x 51mm; 1/16" WFT Cond. 14d @ 23±2°C & 50±10%RH to cure film; Cond. 7d @ 70±2°C; Test 10 cycles @ -26°C; Test Rate = 3.2mm/h from 0.0mm to 3.2mm Expose to 550 ml head of water for 24h extended position	ASTM C 1305/ AAMA 714 Section 5.6	Pass	No cracking, splitting, pinholes, or other conditions in the area of the joint in the substrates
Water Immersion (lbf) 3 specimens; 1" x 1/16"; Cure 21d @ 73.4±3.6°F & 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	AAMA 714 Section 5.7 ASTM C 794		
Anodized Aluminum After Immersion		9	≥ 5
Visual examination		Pass	Note change in appearance
<b>Test Requirements on a Damp Surface (optional classification)</b>			
Damp Surfaces (lbf) 3 specimens; 1" x 1/16"; primed with Dowsil Primer P substrate immersed for 24h prior to application Cure 7d @ 73.4±3.6°F & 50±5%RH; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM C 794		
Damp Cement Mortar Slabs		21	≥ 5
Moisture Vapor Permeance (Perms) 3 specimens; 25mil DFT; Cure 7d @ 23±2°C & 50±10%RH to cure film; Test Cond. 21±1°C & 50±2%RH	ASTM E 96 Procedure B	15	≥ 10

Note(s): None.

#### 2107T0045

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**Statement of Compliance:**

The product tested complies with AAMA 714-19: Voluntary Specification for Liquid Applied Flashing Used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings. The laboratory results presented in this report are representative of the material supplied.

**Limits of Use:**

1. For application to primed Concrete Masonry Units (CMU), primed Cement Mortar, Plywood, and OSB wall substrates.
2. Meets requirements for elevated temperature exposure Classification Level 3 – 80°C.
3. Meets requirements for Crack-Bridging requirements for Category I at 1/16" WFT.

**Signed:**



Anthony Catlett  
Laboratory Manager

**Signed:**



Brent Barbeau  
Manager

**Date:**

Jun. 21, 2023

**Date:**

Jun. 21, 2023

**Report Issue History:**

Issue #	Date	Pages	Revision Description (if applicable)
Original	Jun. 21, 2023	4	NA

**END OF REPORT**

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