

PRI Construction Materials Technologies LLC

6412 Badger Drive Tampa, FL 33647 813.621.5777 https://www.pri-group.com/

Laboratory Test Report

Report for: Kelly Allore

Dow Silicones Corporation 2200 West Salzburg Road Midland, Michigan 48686

Product Name: DOWSIL™ 778
Project No.: 2107T0016

Date(s) Tested: Aug. 16, 2021 - Sep. 7, 2021

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™ 778 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 received by PRI.

ProductSourceDateSamplingDOWSIL™ 778Auburn, MIJun. 11, 2021Dow Sllicones

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Results:

AAMA 714-19

| AAIVIA /14-13 | | | |
|--|----------------------------|----------|-------------------------|
| Property | Test Method | Result | Requirement |
| Test Requirements | | | |
| 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 | | 29 | ≥ 5 |
| Cement Mortar Slabs primed with Dowsil Primer P | | 23 | ≥ 5 |
| Plywood | | 29 | ≥ 5 |
| OSB | | 12 | ≥ 5 |
| Moisture content prior to application | | 8-9 | 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 | 24 | ≥ 5 |
| Visual examination [Pass/Fail] | | Pass | No change in appearance |

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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 | 17 | ≥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 | 25 | ≥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 | | 13 | ≥ 5 |
| Visual examination | | Pass | Note change in appearance |

Note(s): None.

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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 Manger | Signed: | Brent Barbeau Manager |
|---------|-----------------------------------|---------|--------------------------|
| Date: | 09/20/2021 | Date: | 09/20/2021 |

Report Issue History:

| Issue # | Date | Pages | Revision Description (if applicable) |
|----------|------------|-------|--------------------------------------|
| Original | 09/20/2021 | 4 | NA |

END OF REPORT