



PRI Construction Materials Technologies LLC

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Test Status Summary

Report for: Kelly Allore
The Dow Chemical Company
2200 W. Salzburg Rd.
Midland, MI 48686

Product Name: DOWSIL™ Allguard Silicone Elastomeric Coating

Project No.: DCC-512-02-01

Date(s) Tested: July 17, 2018 – December 19, 2018

Test Method(s): SWR Institute Product Validation Performance Profile for Wall Coatings

Results Summary: Product is compliant.

Synopsis: Per the client’s request, PRI-CMT conducted testing in accordance with the Sealant Waterproofing and Restoration Institute’s Product Validation Program for Wall Coatings.

Test Methods: Testing was completed in accordance with the Sealant, Waterproofing and Restoration Institute’s Product Validation Program for wall coatings. Test Methods utilized were ASTM D 412-06: *Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension*; ASTM D 1653-03(2008): *Standard Test Methods for Water Vapor Transmission of Organic Coating Films*; ASTM D 2697-03(2008): *Standard Test Method for Volume Nonvolatile Matter in Clear and Pigmented Coatings*; and ASTM D 6904-03(2007): *Standard Practice for Resistance to Wind Driven Rain for Exterior Coatings Applied to Masonry*; BS EN 1062-7:2004: *Paints and varnishes. Coating materials and coating systems for exterior masonry and concrete. Determination of crack bridging properties.*

Sampling: The following materials were received by PRI.

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
DOWSIL™ Allguard Silicone Elastomeric Coating	Tampa, FL	6/21/2018	PRI-CMT
DOWSIL™ Allguard Silicone Elastomeric Coating	Tampa, FL	11/9/2018	PRI-CMT

The samples for testing were procured by PRI-CMT through local, reputable distribution. The batch numbers were utilized to confirm that the samples were within their shelf life.

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Property	Test Method	Result ¹		Requirement
Volume Solids (%) Analyzed in duplicate	ASTM D 2697	52		52
Density (lb/gal)	ASTM D 2697	9.8		9.6
Resistance To Wind Driven Rain 3 specimens; 8" x 16" x 10mil DFT; Applied in 2 coats; Cured 7d @ 75±5°F & 50±10%RH; Test for 24h @ 5inw.c. with spray 60-70 gal/h Visual inspection for water leaks and moisture gain	ASTM D 6904			
Visible Water		Pass		None
Weight Gain (lb)		0.01		< 0.2
Moisture Vapor Transmission (perms) 3 specimens; 2.22" diameter; 10mil dft; Cond. at 73.6±3.6°F & 50±5%RH	ASTM D 1653 Wet cup			
WVT (grains/h·ft ²)		17.28		Report
Perms		42.2		43.2 ± 10%
Tensile Properties 5 specimens; Die "C"; 10mil dft Cured for 14d @ standard condition Rate = 20 inch/min	ASTM D 412			
Tensile Strength (psi)		263		≥ 145
Elongation (%)		569		600 ± 10%
Crack Bridging (mils) 3 specimens; 3in x 4in x 11mil dft; Cure 14d @ 73.4±3.6°F & 50±10%RH; Cond. 7d @ 70±2°C Rate = 0.05mm/min	EN 1062-7 Method A (Static Tensile)	Crack Bridged	Class	
73°F		57	A4	Report
32°F		60	A4	Report
-15°F		64	A4	Report

Note(s) 1 – Federal Specification TT-C-555B, from which [ASTM D 6904] is derived, was intended for pigmented coatings and required that there be no visible water leaks, and if the rear face of the block is damp, the average gain in weight of the three 8 by 16 by 2in blocks shall be less than 0.2lb (3.2 oz.).

END OF TEST STATUS

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