

Waterproofing Membrane Evaluation

for

Polycoat

Aquaseal 5000 V

Polycoat Products 14722 Spring Avenue Santa Fe Springs, California 90670

November 22, 2019



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REPORT OF TESTS

SUBJECT: Physical Analysis of Waterproofing Membrane PROJECT: Polycoat – Aquaseal 5000 V SPECIFICATION: ASTM C836-18, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course" TEST METHODS: ASTM C794, "Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants" ASTM C1305, "Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane" ASTM C1522, "Standard Test Method for Extensibility After Heat Aging of Cold Liquid-Applied Elastomeric Waterproofing Membranes" ASTM D2240, "Standard Test Method for Rubber Property—Durometer Hardness" ASTM D6411, "Standard Specification For Silicone Rubber Room Temperature Vulcanizing Low Outgassing Materials" MATERIAL: Received by NTL on October 16, 2019 19-1360 NTL PROJECT #: PAGE: 1 of 8



November 22, 2019 Polycoat – Aquaseal 5000 V NTL Project #19-1360 Page 2 of 8

TEST RESULTS

ASTM D2240 - Hardness

Cast Date: Specimen: Gauge:	October 2019 60-mil thick 4 x 6-in men Type OO	nbrane cured 14 days until testing
Results:	PASS	
	Aquaseal 5000 V	<u>ASTM C836-18</u>
Reading 1 Reading 2 Reading 3 Reading 4 Reading 5	92 92 93 90 92	
AVERAGE	92	50, minimum



November 22, 2019 Polycoat – Aquaseal 5000 V NTL Project #19-1360 Page 3 of 8

TEST RESULTS (continued)

ASTM D6511 - Weight Loss

Test Date: Specimens:	October 2019 10-gram samples tested at 158 deg. F for 72 hours	
Results:	PASS	
	Aquaseal 5000 V	<u>ASTM C836-18</u>
Specimen 1 Specimen 2	5.0% 5.1%	
AVERAGE	5.0%	20%, maximum

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November 22, 2019 Polycoat – Aquaseal 5000 V NTL Project #19-1360 Page 4 of 8

TEST RESULTS (continued)

ASTM C1305 - Crack Bridging

Cast Date: Specimens: Cycles:	October 2019 Five composite mortar specimens coated at 0.060-in dry film thickness, cured at 73 deg F for 14 days, then 158 deg F for 7 days until testing 10 cycles @ -15 deg F.	
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Results:	PASS	
	Aquaseal 5000 V	<u>ASTM C836-18</u>
Specimen 1 Specimen 2 Specimen 3 Specimen 4 Specimen 5	PASS (no cracking) PASS (no cracking) PASS (no cracking) PASS (no cracking) PASS (no cracking)	
AVERAGE	PASS (no cracking)	no cracking @ 10 cycles



November 22, 2019 Polycoat – Aquaseal 5000 V NTL Project #19-1360 Page 5 of 8

TEST RESULTS (continued)

ASTM C836 (6.8) - Film Thickness on Vertical Surface

Cast Date:	October 2019
Specimen:	One coated mortar specimen at 0.060-in placed in a vertical
	position for 24 hours.

Results:

PASS

	<u>Aquaseal 5000 V</u>	<u>ASTM C836-18</u>
Reading 1 Reading 2	65.7 mils 71.2 mils	
Reading 3	46.0 mils	
Reading 4 Reading 5	63.0 mils 64.9 mils	
AVERAGE	62.2 mils	55 to 65 mils



November 22, 2019 Polycoat – Aquaseal 5000 V NTL Project #19-1360 Page 6 of 8

TEST RESULTS (continued)

PASS

ASTM C794 - Adhesion-in-Peel

Cast Date: Specimens:	October 2019 Four coated composite mortar specimens cured at 73 deg F for 14 days, then 158 deg F for 7 days, then immersed in water for 7 days until testing

Results:

	Aquaseal 5000 V	<u>ASTM C836-18</u>
Specimen 1	13 lbf	
Specimen 2	14 lbf	
Specimen 3	29 lbf	
Specimen 4	9 lbf	
AVERAGE	16 lbf	1.0 lbf, minimum



November 22, 2019 Polycoat – Aquaseal 5000 V NTL Project #19-1360 Page 7 of 8

TEST RESULTS (continued)

ASTM C1522 - Extensibility After Heat Aging

Cast Date: Specimens:	October 2019 Three 6 x 3 x 0.5-in mortar specimens coated at 0.060-in dry film thickness, cured at 73 deg F for 14 days, then 158 deg F for 14 days, then immersed in water for 7 days until testing	
Results:	PASS	
	<u>Aquaseal 5000 V</u>	<u>ASTM C836-18</u>
Specimen 1 Specimen 2 Specimen 3	No cracking at 0.25-in No cracking at 0.25-in No cracking at 0.25-in	
AVERAGE	No cracking at 0.25-in	0.25-in, minimum



November 22, 2019 Polycoat – Aquaseal 5000 V NTL Project #19-1360 Page 8 of 8

SUMMARY

The test results listed above for the Aquaseal 5000 V met or exceeded their corresponding requirements as set forth in ASTM C836-18.

Respectfully submitted,

NELSON TESTING LABORATORIES

Mark R. Nelson President

<u>Notes</u>: The results listed within this report relate only to the materials submitted for testing. This report shall not be reproduced, except in full, without written approval of this laboratory. The test materials not consumed in this testing will be discarded 14 days from the date of this report unless we receive written notification requesting otherwise.