

NELSON

TESTING
LABORATORIES

EXPERIENCED | INNOVATIVE | AUTHENTIC

Waterproofing Membrane Evaluation
for
Polycoat Products
Aquaseal 5000 WC-GC (H)

Polycoat Products
14722 Spring Avenue
Santa Fe Springs, California 90670

July 7, 2016

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Santa Fe Springs, California 90670

REPORT OF TESTS

SUBJECT: **Physical Analysis of Waterproofing Membrane**

PROJECT: **Polycoat – Aquaseal 5000 WC-GC (H)**

SPECIFICATION: ASTM C836, “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: Shipped to NTL in April 2016 (Lot #21601550)

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TEST RESULTSASTM D2240 - Hardness

Cast Date: May 2016
Specimen: 60-mil thick 4 x 6-in membrane cured 14 days until testing
Gauge: Type OO

Results: PASS

Aquaseal 5000 WC-GC (H)ASTM C836-15

Reading 1	89
Reading 2	93
Reading 3	95
Reading 4	96
Reading 5	95

AVERAGE

94

50, minimum

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TEST RESULTS (continued)

ASTM D6511 – Weight Loss

Test Date: May 2016
Specimens: 10-gram samples tested at 158 deg. F for 72 hours

Results: PASS

	<u>Aquaseal 5000 WC-GC (H)</u>	<u>ASTM C836-15</u>
Specimen 1	0.5%	
Specimen 2	0.5%	
AVERAGE	0.5%	<i>20%, maximum</i>

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TEST RESULTS (continued)

ASTM C1305 – Crack Bridging

Cast Date:	May 2016
Specimens:	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
Cycles:	10 cycles @ -15 deg F.
Results:	PASS

Aquaseal 5000 WC-GC (H)

ASTM C836-15

Specimen 1	no cracking	
Specimen 2	no cracking	
Specimen 3	no cracking	
Specimen 4	no cracking	
Specimen 5	no cracking	
AVERAGE	no cracking	<i>no cracking @ 10 cycles</i>

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TEST RESULTS (continued)

ASTM C794 – Adhesion-in-Peel

Cast Date: May 2016
Specimens: 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: PASS

Aquaseal 5000 WC-GC (H)

ASTM C836-15

Specimen 1	79.2 lbf
Specimen 2	86.7 lbf
Specimen 3	79.7 lbf
Specimen 4	85.7 lbf

AVERAGE **85.3 lbf**

1.0 lbf, minimum

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TEST RESULTS (continued)

ASTM C1522 – Extensibility After Heat Aging

Cast Date: May 2016
Specimens: 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 WC-GC (H)</u>	<u>ASTM C836-15</u>
Specimen 1	No cracking at 1/4-in	
Specimen 2	No cracking at 1/4-in	
Specimen 3	No cracking at 1/4-in	
AVERAGE	No cracking at 1/4-in	<i>1/4-in, minimum</i>

Respectfully submitted,

NELSON TESTING LABORATORIES



Mark R. Nelson
President