

1325 North 108th E. Ave. Tulsa, OK 74116 918.437.8333 ph. | 918.437.8487 fx.

**CLIENT: Polycoat Products** 

14722 Spring Ave,

Santa Fe Springs, CA 90670

Test Report No: TJ4139-5 Date: December 20, 2016

Data collected under QAI Laboratories project number TJ4139-2 REFERENCE:

**SAMPLE ID:** Sample Identified as; Aquaseal 5000-WC-GC-Horizontal

**SAMPLING DETAIL:** Test samples were submitted to the laboratory directly by the client. No special

sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on September 14, 2016.

**TESTING PERIOD:** October 21 – November 3, 2016

**AUTHORIZATION:** Testing was authorized by proposal 16SP0823 signed by, Hemant Prajapati, on

September 9, 2016.

**TEST PROCEDURE:** ASTM E96-15, Standard Test Method for Water Vapor Transmission of Materials,

Procedure B Water Method.

**TEST RESULTS:** Detailed test results are presented in the subsequent pages of this report.

Signed for and on behalf of **Prepared By** QAI Laboratories, Inc.

**Rocky Hale** 

Materials Technician

Joe Cavett **Project Manager** 



Polycoat Products Report No.: TJ4139-5 December 20, 2016 Page 2 of 3

Testing was conducted in accordance with ASTM E 96/E96M-15, Standard Test Methods for Water Vapor Transmission of Materials", Procedure B for Water Method. Three (3) 3-inch circular specimens were prepared from the submitted material and assembled into test fixtures containing water. The test fixtures were maintained in an environment with a constant temperature of 73°F and 50% relative humidity. Weight measurements were recorded periodically after the test material had reached a steady state condition with relationship to change in weight vs. time. The water vapor permeance was then calculated as outlined in ASTM E 96.

Table 1- Results Terrashield WC-100 GC Horizontal																
Dat	e Time*	C= 7.7		793	D=	0.00503	C=	7.7	793	D=	0.00503	C=	7.7	793	D=	0.00503
	(clock)	X-		Y-grams		Slope	X-		Y-grams		Slope	X-		Y-grams		Slope
	hours		rs				hours					hours				
10/2	.5 10:00 AM		0.00		.870		0.00		170.007			0.00		173.222		
10/2				157.843		0.0011	24.00		169.977		0.0013	24.00		173.207		0.0006
10/2				157.816		0.0011	48.00		169.952		0.0010	48.00		173.195		0.0005
10/2		72.45		157.789		0.0011	72.45		169.931		0.0009	72.45		173.182		0.0005
10/3		12:30 AM 146.50		157.700		0.0012	146.50		169.854		0.0010	146.50		173.128		0.0007
11/		10:30 AM 168.50		157.676		0.0011	168.50			.833	0.0010	168.50		173.114		0.0006
11/	10:00 AM 192			157.652		0.0010	192			).812	0.0009	192			.100	0.0006
11/	11/3 10:00 AM		216.00		.627	0.0010	216.00		169	).790	0.0009	216.00		173.085		0.0006
						0.00			0.00		)				0.00	AVG
Beg	<b>gin</b> calculatio	calculations @														
	hr:															
End		calculations @		216.00			216.00				00	216.00				
	hr:			210.00			210.00								10.00	
E. Slope (gm/hr)						0.00114	00114			0.00100		0.0			00065	
F.	WVT (gm/m²/hr)			0.360				0.315				0.129				0.293
= E ÷ D																
	WVT			8.63			7.56				6				4.90	7.029
G.	(gm/m²/24hr)															
	= F x 24	,														
Н.	WVT (gr/ft²/	hr)		0.514		0.45		1		0.292		0.419				
• • •	= G x 0.0596					0.011				0. 10	•					0.110
Perms**			1.240			1 240	1.086				6	0.704				1.010
I.		gr/ft²/hr/inHg) =				1.240				1.00	٠			U	.704	1.010
	(91/11/111/111	<u> </u>														

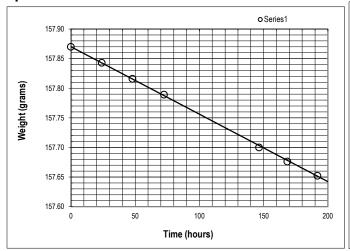
THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFERENCED.

THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED.

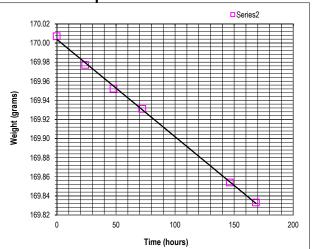


## **Terrashield WC-100 GC Horizontal**

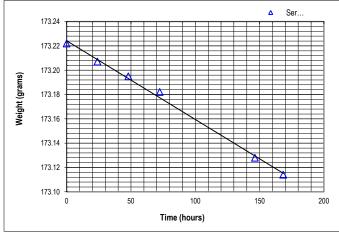
Specimen 1



Specimen 2



Specimen 3



## \*\*\* END OF TEST REPORT \*\*\*

THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFERENCED. THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED.