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EVALUATION OF “EVO Stone” COATING SYSTEM ADHESION STRENGTH IN ACCORDANCE WITH ASTM D4541-09

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1.0 INTRODUCTION

At the request of *Carter fabricating Inc.*, Exova was retained to evaluate "EVO Stone" coating system for adhesion strength in accordance with ASTM D4541.09

All samples received were shipped to Exova facility in Mississauga, ON for testing. Upon receipt, the samples were assigned the following Exova Sample Number:

Client Sample Description	Exova Sample No.
<p>EVO STONE COATING - Stucco Coating (6" x 6" – 4 pieces & 12" x 12" – 3 pieces)</p> 	15-06-P0067

2.0 PROCEDURE

Testing was performed in accordance with the ASTM test method, described below:

Test Description	Test Method
Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers	ASTM D4541-09

Test Method: ASTM D4541-Type V
 Equipment: Positester, MII# B11879
 Metal Dolly: 20 mm (0.7874 inch) diameter
 Exposure: 23 ± 2°C; 50 ± 5% RH for at least 88 hrs
 Test Date: 2015-04-15

3.0 RESULTS

A summary of results is presented in Table 1. In all cases, SI units are the primary units of measure.

Table 1 – Pull Adhesion ASTM D4541-07- Type V <i>Exova Sample No.: 15-06-P0067</i>			
Specimen No.	Conditioning	Pull Strength, MPa (psi)	Failure Description
1	As Received	2.11 (306)	90% substrate, 10% coating
2		2.28 (331)	5% substrate, 95% coating
3		2.03 (294)	80% substrate, 20% coating
4		2.36 (342)	5% substrate, 95% coating
5		2.26 (328)	50% substrate, 50% coating
Average	-	2.21 (320)	-

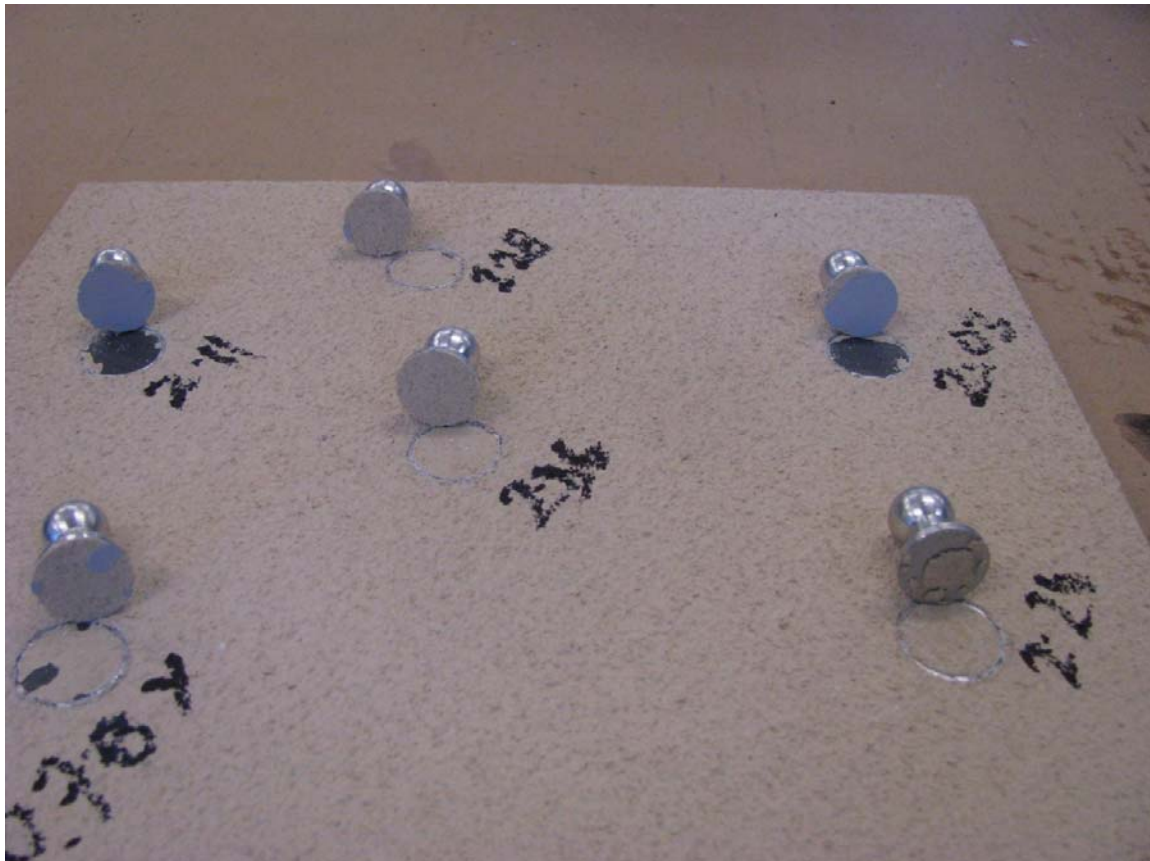


Photo 1: Image of failure planes after pull adhesion testing.

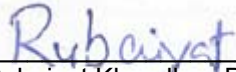
3.0 REVISION(S)

- 2015-06-02 Original Report.
- 2015-06-25 Imperial units were added to Table 1 and the conclusion.

5.0 CONCLUSION

The samples submitted by Carter Fabricating Inc., identified as "EVO Stone Coating System" has been tested for adhesion strength in accordance with ASTM D4541, as de scribed in this report. The average pull-off strength was measured to be 2.21 MPa (320 psi).

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