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**EVALUATION OF “EVO Stone” COATING SYSTEM FOR HUMIDITY RESISTANCE  
IN ACCORDANCE WITH ASTM D2247-11**


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A Report to:	Carter Fabricating Inc. 326 Deerhurst Drive, Brampton, ON L6T 5H9
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Proposal No.:	15-006-349178, Revision 2
Report No.:	15-06-P0067-A 4 pages
Date:	June 2, 2015

## 1.0 INTRODUCTION

At the request of *Carter fabricating Inc.*, Exova was retained to evaluate "EVO Stone" coating system for humidity resistance in accordance with ASTM D2247-11.

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 &amp; 12" x 12" – 3 pieces)</p> 	15-06-P0067

## 2.0 PROCEDURE

Testing was performed and evaluated in accordance with the ASTM test methods described below:

Test Description	Test Method
Standard Practice for Resistance of Cured Coatings to Thermal Cycling	ASTM D6944-09, Method A
Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments	ASTM D1654-08

Specimen Dimensions	150 mm x 150 mm x 6 mm (nominal)	
No. of Specimens	3	
Exposure Temperature	38°C	
Air pressure	80 Psi	
Water temperature	45°C	
Nozzle angle	45°	
Measurement Equipment	Thermocouple	MII# B10864
	Humidity	MII# B12366
Test Start Date	2015-04-15	
Test End Date	2015-04-29	

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 – Physical Properties Summary Exova Sample No.: 15-06-P0067		
Physical Property	Requirement	Result /Comment
<b>Moisture Resistance</b> - 3 panels 14 days @38°C,100%RH	Visual Observation of the panels before and after exposure and one panel scribed for corrosion creepback as per ASTM D1654	<ul style="list-style-type: none"><li>• No blistering, lifting or other visible changes.</li><li>• No loss of adhesion /creepback from the scribe</li></ul>



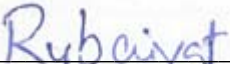
Photo 1: Panels after exposure to high humidity

Observation: No blistering, lifting or other visible changes.  
No loss of adhesion /creepback from the scribe.


#### 4.0 CONCLUSION

The samples submitted by Carter Fabricating Inc., identified as "EVO Stone Coating System" has been tested for humidity resistance in accordance with ASTM D2247-11, as described in this report. No visible physical damage or changes in appearance were found at the end of the exposure period.

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