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P.O. BOX 152837, DALLAS, TEXAS 75315
1323 WALL ST, DALLAS, TEXAS 75215
PHONE 214/565-0593
FAX 214/565-1094

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Submitted by: TIGER Drylac USA Inc.
3945 Swenson Avenue
St. Charles, IL 60174

Date: May 30, 2018

Attn: Matt Kamstra

Report No.: 50798-5
P.O. No.: 4580006759

REPORT

Sample:

Organic Coated aluminum extrusions
Coating: Series EXP 138 Jet Black RAL 9005, Prod. #13880001, lot #823458509
Production Date: 9/29/17
Cure: 5 minutes @ 200°C
Pre-treatment: Q-Lab AL-36 Chrome pretreat
Drawing: panels

A. PROCEDURE

Submitted sample was tested **for informational purposes** according to AAMA 2604-17, "Voluntary Specification, Performance Requirements and Test procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels," Section 8.1 through 8.8.2 with the following results:

B. REPORT

| <u>Test</u> | <u>Results</u> | <u>AAMA 2604-17 Specification Requirements</u> |
|---------------------------------------|----------------|--|
| 8.1 Color Uniformity (ASTM D2244) | Standard | Standard |
| 8.2 Specular Gloss (ASTM D523) | 88.9 | As reported |
| 8.3 Dry Film Hardness (ASTM D3363) | Pass F | F hardness and no film rupture |
| 8.4 Film Adhesion (ASTM D3359) | Pass | |
| 8.4.1.1 Dry | 5B | 4B min. rating |
| 8.4.1.2 Wet | 5B | 4B min. rating |
| 8.4.1.3 Boiling | 5B | 4B min. rating |
| 8.5 Impact Resistance (ASTM D3359) | Pass | No removal of film from Substrate |

| <u>Test</u> | <u>Results</u> | <u>AAMA 2604-17 Specification Requirements</u> |
|--|--------------------------|---|
| 8.6 Abrasion Resistance (ASTM D968) | Pass (>ACV 20) | ACV 20 minimum |
| 8.7 Chemical Resistance | | |
| 8.7.1 Muriatic Acid | Pass | No Blistering or Visible Change |
| 8.7.2 Mortar | Pass | No Blistering or Visible Change |
| 8.7.3 Nitric Acid | Pass (Delta E = 0.28) | Hunter Delta E=5 maximum |
| 8.7.4 Detergent | Pass | No Film Adhesion Loss or Visible Change |
| 8.7.5 Window Cleaner Resistance | Pass | No blistering or noticeable change in appearance and no film loss |
| 8.8 Corrosion Resistance | | |
| 8.8.1 Humidity (ASTM D2247) | Pass (No Blisters) | Not greater than Few & No. 8 |
| 8.8.2 Salt spray (ASTM B117) | Pass | |
| Scribe | 7 | 7 Minimum rating |
| Field | 10 | 8 Minimum rating |

Date Testing Started: 1/29/18
Date Testing Completed: 5/30/18
Date Test Report Expires: N/A
Sampled by: N/A

Testing Conducting At: Dallas Laboratories, Inc., 1323 Wall St., Dallas, Texas 75215.

The test results indicate that the sample tested **for informational purposes** is in compliance with all of the performance requirements of AAMA 2604-17 for High Performance Organic Coatings on Aluminum Extrusions and Panels, except for section 8.9 WEATHERING which must be furnished by the coating supplier for full compliance to AAMA 2604-17 as specified by AAMA.

DALLAS LABORATORIES, INC.


Kevan W, Jones, Vice President

Analyst: GF
KWJ: js