



273 Industrial Dr. ♦ Hillsdale, MI 49242 ♦ Phone: (517) 439-1485 ♦ Fax: (517) 439-1652

Ford Pressure Sensitive Performance Testing

Test Materials: 7510 and 7514

ACT Quote Number: AQT 49377
ACT Project Number: AIN 154314C

Reference Number: Ford ESB-M99J291-A3/A4 (01/85)

Prepared By: MWR and MDC
Date Prepared: 12/30/05
Logbook: MDC-8, pp. 43-45

APPROVED BY:

A handwritten signature in black ink that reads "Kevin Wendt". The signature is written over a faint, light-colored rectangular stamp that contains the letters "ACT" in a stylized font.

Kevin Wendt
Technical Manager



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LABORATORY TEST REPORT

ACT PROJECT AIN154314C

Test Materials: 7510 (Ford ESB-M99J291-A4)
7514 (Ford ESB-M99J291-A3)

Substrate: ACT CRS 4" x 12" x 0.032"

Panel Identification: B = Phosphate: B952 P60 DIW; Unpolished
E-coat: BASF U32AD352B
Primer: BASF U28RW035A
Basecoat: BASF E86WM102 Oxford White
Clearcoat: BASF R10CG060Z

D = Phosphate: C700 C59 Immersion DIW; Unpolished
E-coat: DuPont Cormax 6EP
Primer: DuPont 554DM726 White
Basecoat: DuPont 686DM640 White
Clearcoat: DuPont RK8014 (RKS40348)

P = Phosphate: C700 C59 Immersion DIW; Unpolished
E-coat: PPG ED6230B E-coated at PPG
Primer: PPG FCP6514 White
Basecoat: PPG DCT6466 White
Clearcoat: PPG MAC8000R

Evaluation #1: Visual Examination Rating Scale

Degree of Change: None: No change
Slight: Barely observable with normal examination
Moderate: Modest change, Readily noticeable
Pronounced: Distinct change, Easily observed with casual examination

Evaluation 3.4.1: Sample Preparation
Procedure: Panel was wiped with Naphtha using a lint free cloth, then a wetting solution (5 ml Dawn dish soap to 4 L water) was applied to panel, and then panel was squeegeed.

Sample Preconditioning: Samples were conditioned at $22 \pm 1^{\circ}\text{C}/50 \pm 5\% \text{RH}$ for 48 hours prior to testing



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Evaluation 3.4.3.1: Florida Weathering
 AQT 49377: Per Line Item #5 of Quotation
 Material Received: 09/08/04
 Test Start Date: 11/11/04
 Test End Date: 11/11/05

Exposure: 12 Month Direct Florida Weathering
 5° South-Open Backed

Subcontracted Location: Q-Lab Weathering Research Service; Homestead, FL
 Report Number: ALI-0158 (see attached)

Radiation Exposure: Total = 6519.75 MJ/m²
 TUVR = 337.59 MJ/m²

Evaluations: Visual examinations for Fading, Chalking, Dulling, Yellowing, Brittleness, Loss of Adhesion, Cracking, Checking, Blistering and Peeling per Evaluation #1

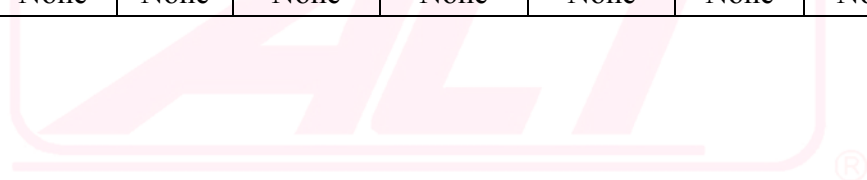
MJ/m²: Mega Joules per Square Meter

Florida Weathering Test Data: **12 Months**

ID		Fading	Chalking	Dulling	Yellowing	Brittleness	Loss of Adhesion	Cracking	Checking	Blistering	Peeling
5-B7510	1	None	None	Slight	None	None	None	None	None	None	None
	2	None	None	Slight	None	None	None	None	None	None	None
	3	None	None	Slight	None	None	None	None	None	None	None
5-D7510	1	None	None	Slight	None	None	None	None	None	None	None
	2	None	None	Slight	None	None	None	None	None	None	None
	3	None	None	Slight	None	None	None	None	None	None	None
5-P7510	1	None	None	Slight	None	None	None	None	None	None	None
	2	None	None	Slight	None	None	None	None	None	None	None
	3	None	None	Slight	None	None	None	None	None	None	None

**LABORATORY TEST REPORT****ACT PROJECT AIN154314C**Florida Weathering Test Data (cont.): **12 Months**

ID	Fading	Chalking	Dulling	Yellowing	Brittleness	Loss of Adhesion	Cracking	Checking	Blistering	Peeling
5-B7514	1	None	None	None	None	None	None	None	None	None
	2	None	None	None	None	None	None	None	None	None
	3	None	None	None	None	None	None	None	None	None
5-D7514	1	None	None	None	None	None	None	None	None	None
	2	None	None	None	None	None	None	None	None	None
	3	None	None	None	None	None	None	None	None	None
5-P7514	1	None	None	None	None	None	None	None	None	None
	2	None	None	None	None	None	None	None	None	None
	3	None	None	None	None	None	None	None	None	None





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LABORATORY TEST REPORT

ACT PROJECT AIN154314C



Q-Lab Weathering Research Service
1005 S.W. 18 Avenue
P. O. Box 349490
Homestead, FL 33034

TEST CERTIFICATE
Natural Weathering
November 11, 2005

Test Number: ALI-0158
Company: ACT Laboratories, Inc.
Address: 273 Industrial Drive, Bldg A
Hillsdale, MI 49242
Attention: Ms. Julie Piper
Your Reference: APO50847
No. of Specimens: 18 coated metal panels
Specimen Identification: 154314 1-18

Test Method: Ford ESB-M99J291, Para. 3.4.3.1
Deviations: Evaluations will be performed by client.
Exposure Date: November 11, 2004
Completion Date: November 11, 2005
Exposure Duration: 12 months
Exposure Type: Direct Weathering-Florida
5° South
Open backed
Radiation Exposure: Total = 6519.75 MJ/m² TUVB = 337.59 MJ/m²
Inspection Report: None conducted
By: Rosa Rivera
Laboratory Technician
Approved By: JoAnn Stephenson
Site Manager