Detroit Testing Laboratory, Inc.

PREPARED FOR
HORIZONS, INC.
18531 SOUTH MILES ROAD
CLEVELAND, OH 44128

ATTENTION
JAY KRYMOWSKI

CUSTOMER PURCHASE ORDER NUMBER
POI002194

REPORT DATE
OCTOBER 25, 2011

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REPORTED / APPROVED BY:

DETROIT TESTING LABORATORY, INC.

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David Smith, Department Manager
Materials Testing

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Timothy R. Geiger, Group Manager
Materials Testing

DS/TRG/mmj
PURPOSE

The purpose of this test report is to present the test results obtained during the performance of a test program. This report includes a brief description of the samples presented for test, a list of the documents presented as test instructions, and a summary of the testing performed and the results obtained. Applicable requirements and conclusions are based on the criteria provided by our client, or as specified in the reference document(s).

WORK REQUESTED / REFERENCE DOCUMENT(s)

Per A-A-50271(2/96):
Resistance to Thermal Shock per 3.6/3.6.1
Resistance to Corrosion per 3.7
Resistance to Solvent per 3.8
Resistance to Weathering per 3.9/3.9.1

SAMPLE DESCRIPTION

Three types of 4" x 4" identification plates identified as Dura Black (12 plates), Metalphoto (13 plates) and Dura Jet (12 plates)

SAMPLE CONDITIONING

Prior to testing, the samples were conditioned at 23 °C ±2 °C and 50% ±5% relative humidity, as applicable.
TESTING PERFORMED

RESISTANCE TO THERMAL SHOCK PER 3.6/3.6.1

Procedure
One (1) plate of type each, Dura Black, Metalphoto and Dura Jet were placed in a water bath at 175°F for three hours, then immediately transferred to a cold chamber at -65°F for one hour. This procedure was immediately repeated and the plates were visually examined.

Results
The copy on the plates were legible and the plate material showed no evidence of cracking, splitting, wrinkling, warping or any other injurious defects.

Requirements
The copy on the finished plate shall be legible and the plate material shall show no evidence of cracking, splitting, wrinkling, warping, or other injurious defects.

Conclusion
The specimens meet the stated requirements.

RESISTANCE TO CORROSION PER 3.7

Procedure
150 hours salt spray exposure per ASTM B117-09.

Results
Dura Black - No visual evidence of corrosion on either side after exposure.
Metalphoto - No visual evidence of corrosion on either side after exposure.
Dura Jet - No visual evidence of corrosion on either side after exposure.

Requirements
No corrosion on either side allowed after exposure.

Conclusion
The specimens meet the stated requirements.
TESTING PERFORMED CONTINUED

RESISTANCE TO SOLVENT PER 3.8

Procedure

One of each type of plates was immersed in one of the three solvent solutions specified in Paragraph 2.1 a, c, and d of MIL-STD-202G. Plaques were immersed for 3 minutes in solution, than brushed 10 strokes forward with a toothbrush. The procedure was repeated 2 more times. After air-blown dry or washing and air blown-dry, plaques were visually evaluated according with Paragraph 4.1 at 2X using an optivisor and 4.2 at 10X using a digital microscope.

Results

<table>
<thead>
<tr>
<th>Panel type</th>
<th>Observation per Paragraph 4.1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solvent solution “a”</td>
</tr>
<tr>
<td>Dura Black</td>
<td>No visual change*</td>
</tr>
<tr>
<td>Metalphoto</td>
<td>No visual change*</td>
</tr>
<tr>
<td>Dura Jet</td>
<td>No visual change*</td>
</tr>
</tbody>
</table>

*Paragraph 4.1- No missing, faded, smeared, blurred, or shifted markings at 6 inches with a 2X optivisor at normal room lighting. (Finished plates are legible)

<table>
<thead>
<tr>
<th>Panel type</th>
<th>Observation per Paragraph 4.2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solvent solution “a”</td>
</tr>
<tr>
<td>Dura Black</td>
<td>No visual change**</td>
</tr>
<tr>
<td>Metalphoto</td>
<td>No visual change**</td>
</tr>
<tr>
<td>Dura Jet</td>
<td>No visual change*</td>
</tr>
</tbody>
</table>

**Paragraph 4.2- No cracks, separations, crazing, swelling, softening, degradation or other damage at 10X magnification.

Requirements

The copy on the finished plates shall be legible after being subjected to the solvents specified in MIL-STD-202.

Conclusion

The specimens the meet the stated requirements.
TESTING PERFORMED CONTINUED

RESISTANCE TO WEATHERING PER 3.9/3.9.1

Procedure

50 Hours@ 63°C with water spray 18 minutes per every 2 hours of exposure

Results

<table>
<thead>
<tr>
<th>Specimens</th>
<th>Visual Evaluations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dura Black-1D</td>
<td>No obvious evidence of visual change.</td>
</tr>
<tr>
<td>Metalphoto-1D</td>
<td>A very mild amount of yellowing was observed.</td>
</tr>
<tr>
<td>Dura Jet-1D</td>
<td>No obvious evidence of visual change.</td>
</tr>
</tbody>
</table>

Requirements

The test plates shall show no appreciable change in color, clarity or legibility.

Conclusion

The specimens meet the stated requirements.
SAMPLE DISPOSITION

Samples will be retained at Detroit Testing Laboratory, Inc. for 30 days and then disposed of, unless otherwise specified by Horizons, Inc.

TEST EQUIPMENT

Detroit Testing Laboratory, Inc.’s calibration system meets the requirements of ISO 17025:2005.

<table>
<thead>
<tr>
<th>DTL ID</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Calibration Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>07161</td>
<td>Oven</td>
<td>Blue M</td>
<td>OV-500C-2</td>
<td>NCR</td>
</tr>
<tr>
<td>10890</td>
<td>Hydra Data Bucket</td>
<td>Fluke</td>
<td>2625A</td>
<td>02/29/12</td>
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<tr>
<td>EC171</td>
<td>Environmental Chamber</td>
<td>Ecosphere</td>
<td>EC612 (16612H)</td>
<td>02/29/12</td>
</tr>
<tr>
<td>12878</td>
<td>Three Channel Timer</td>
<td>VWR International</td>
<td>62344912</td>
<td>10/31/11</td>
</tr>
<tr>
<td>EC122</td>
<td>Salt Spray Chamber</td>
<td>Singleton</td>
<td>22</td>
<td>07/31/12</td>
</tr>
<tr>
<td>10600</td>
<td>Dual Timer</td>
<td>VWR</td>
<td>6116-340</td>
<td>12/31/11</td>
</tr>
<tr>
<td>12350</td>
<td>Digital Microscope</td>
<td>Motic</td>
<td>62344912</td>
<td>10/31/11</td>
</tr>
<tr>
<td>12207</td>
<td>Thermometer</td>
<td>Omega</td>
<td>HH81</td>
<td>07/31/12</td>
</tr>
<tr>
<td>EC071</td>
<td>Carbon-Arc Weatherometer</td>
<td>Atlas Electronic Devices Co.</td>
<td>XW</td>
<td>NCR</td>
</tr>
<tr>
<td>12307</td>
<td>Thermometer, Black Panel</td>
<td>Atlas Electronic Devices Co.</td>
<td>(0 to 100)°C</td>
<td>02/29/12</td>
</tr>
</tbody>
</table>

NCR= No calibration required

APPENDICES:  Appendix A: Photographs
Horizons 110650026-1B Resistance to Corrosion Pre-test

Horizons 110650026-1B Resistance to Corrosion Post test
Weathering exposure comparison of metalphoto sample