APPROVALS AND TESTING

TEST DATA: Poly-I-Gard® 246SF
Vehicular Deck System

Summary of Test Report Conducted by Ramtech Laboratories on the Poly-I-Gard® 246SF Decking System

   Visual Examinations: No signs of chalking, crazing, cracking, blistering, delaminating, spalling, softening or any other deleterious effects.

ASTM-D 751, Five specimens weathered and five specimens aged per AC39 Sec. IV A & B. Stretch rate 12 ± 0.5 in./min.

With Aggregate

<table>
<thead>
<tr>
<th>Mode of Failure</th>
<th>Tensile Strength (lb./in.)</th>
<th>Elongation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>21.3</td>
<td>89</td>
</tr>
<tr>
<td>Weathered</td>
<td>12</td>
<td>131</td>
</tr>
<tr>
<td>% Change Weathered</td>
<td>43.6</td>
<td>32</td>
</tr>
<tr>
<td>Aged</td>
<td>23</td>
<td>111</td>
</tr>
<tr>
<td>% Change Aged</td>
<td>7.3</td>
<td>15.2</td>
</tr>
</tbody>
</table>

Without Aggregate

<table>
<thead>
<tr>
<th>Mode of Failure</th>
<th>Tensile Strength (lb./in.)</th>
<th>Elongation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>41.8</td>
<td>169</td>
</tr>
<tr>
<td>Weathered</td>
<td>29</td>
<td>154</td>
</tr>
<tr>
<td>% Change Weathered</td>
<td>30.6</td>
<td>8.9</td>
</tr>
<tr>
<td>Aged</td>
<td>50</td>
<td>133</td>
</tr>
<tr>
<td>% Change Aged</td>
<td>16.4</td>
<td>21.3</td>
</tr>
</tbody>
</table>

2. Aging Test: ASTM D-412, Stretch rate 20 ± 0.5 in./min.
   Procedure D & E. Six cycles of each procedure. Material tested without aggregate.

Visual Examination after Aging Test: No sign of chalking, crazing, cracking, blistering, delaminating, or any other deleterious effects.

   Loss due to Percolation after the 1000 cycles abrasion test (% of original head, max. allowed 1%): 0%

4. Absorption Test: ASTM D 570, 24 hour immersion in distilled water. Weight % of water absorption (max. allowed 5%): 1.86%

5. Water Vapor Transmission (WVT) Test: ASTM E-96 Desiccant Method: WVT: 0.000000249 grams/Pa · sec · m²;
   WVT: 4.350 grains/ft² · hr · in. Hg


7. Concentrated Load Test: AC 39, Sec. IV L. One inch diameter steel plate with rounded corners.
   Load [lbs] 100 200 300
   Deflection [inches] 0.020 0.028 0.037

8. Impact Resistance: A two pound steel ball dropped eight feet onto the decking system. Test was performed three time with an average indentation of 0.027 in.

9. Crack Resistance (Crack Bridging): Top coat showed signs of cracking while bottom coat maintained its integrity.

   Reagent: Non-Abraded Abraded
   Heavy duty detergent sol. 1 1
   Muriatic acid 2 2
   Ammonia solution - 5% 1 1
   Anti-Freeze 1 1
   Kerosene 1 1
   Salt Solution - 10% 1 1
   Chlorine Solution - 10% 1 1
   Paint thinner 1 1
   Turpentine 1 1
   Sulfuric Acid - 3% 1 1
   Transformer Oil 1 1
   Sulfuric Acid - conc. 3 3
   Diesel fuel 1 1
   Hydraulic Fluids 1 1
   Gasoline - Regular 1 1
   Toluene 1 1
   Lubricating oil 1 1
   Soap Solution 1 1

Note:  
a) Of the 18 reagents used in the chemical resistance test, only sulfuric acid concentrate caused a deterioration of the decking system.
b) Wearing surface revealed no cracking, crazing, delamination, or any other deleterious effects.
c) The test specimens which were coded "No. 2 or 3" could not be restored to their original surface condition by normal cleaning methods.

11. Low Temperature Flexibility: AC 39 Sec. K. 5°F. No cracking or crazing upon visual examination under 5x magnification in the bent condition.


<table>
<thead>
<tr>
<th></th>
<th>Base (in.)</th>
<th>Length (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deck 1</td>
<td>15</td>
<td>18</td>
</tr>
<tr>
<td>Deck 2</td>
<td>15</td>
<td>27</td>
</tr>
<tr>
<td>Max. Flame Spread Allowed</td>
<td>40</td>
<td>72</td>
</tr>
</tbody>
</table>

Poly-I-Gard® 246 SF vehicular deck system will satisfactorily withstand the Flame Spread portion of the test for Class A Rating in UBC STD #32-7, ASTM E108, UL 790 and NFPA No. 256, when constructed, installed and tested as described herein.

Disclaimer:
All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use. Application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests, accurately represent all environments.