U. S. Steel ACRYLUME® steel sheet is a coated sheet product that combines the excellent corrosion resistance of GALVALUME® steel sheet with a clear organic resin surface treatment that is applied over the GALVALUME® coating. The surface treatment is essentially invisible but it provides excellent characteristics to enhance the performance and applicability of GALVALUME® steel sheet.

These enhancements include:

- Good rollformability without the need for oils
- Excellent transit and field-storage performance without staining
- Dramatic decrease in fingerprinting or footprinting during installation
- Long term surface brightness when exposed to the environment

Read more about the construction-specific aspects of ACRYLUME® in the Technical Bulletins area of this page.
ACRYLUME® steel sheet is produced directly on the GALVALUME® steel sheet coating line. It is applied by rollcoating a uniform, thin film of a water-base acrylic solution onto both surfaces of the sheet. The sheet is then heated to dry the film, leaving a thin, hard acrylic coating on top of the GALVALUME® coating. The acrylic film contains corrosion inhibitors and provides lubricity for rollforming.

Aside from the special attributes of the acrylic coating, the product behaves very similarly to GALVALUME® product. The corrosion resistance that GALVALUME® offers in terms of time to the appearance of red rust in the atmosphere is unchanged. It behaves like GALVALUME® steel sheet except with respect to the features discussed above.

FOR FURTHER INFORMATION CONTACT:

Berridge Manufacturing Company
2610 Harry Wurzbach Road, San Antonio, TX 78209 (210) 650-3050
www.Berridge.com

or

United States Steel Corporation
Corrosion Performance
The results of accelerated corrosion tests show the superiority of ACRYLUME® Coated Sheet when compared with today’s conventional chemically treated GALVALUME® Coated Sheet.

Wet Stack Test

- Designed to simulate storage of sheets in either coil form or as a stacked bundle at the job site.
- Test samples stacked tightly in a bundle - wetted between the individual panels every two days with deionized water.
- Tested at 100° F for 750 hours.

<table>
<thead>
<tr>
<th>HOURS IN TEST</th>
<th>ACRYLUME® COATED SHEET</th>
<th>CT1 (^1)</th>
<th>CT2 (^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>Light haze</td>
<td>Light surface spots</td>
<td>Dark black spots and edges</td>
</tr>
<tr>
<td>500</td>
<td>Light haze</td>
<td>Light surface patches</td>
<td>Heavy black patches</td>
</tr>
</tbody>
</table>
**Water Immersion Test**

- Designed to simulate ponding of water on a low slope roof.
- Samples immersed in deionized water.
- Water temperature - 100° F.
- Test duration - 2,000 hours.

<table>
<thead>
<tr>
<th>HOURS IN TEST</th>
<th>ACRYLUME® COATED SHEET</th>
<th>CT1 (^1)</th>
<th>CT2 (^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>Slight dulling</td>
<td>Initial dark spots</td>
<td>Dark patches</td>
</tr>
<tr>
<td>1000</td>
<td>White patches with dark spots</td>
<td>Dark &amp; light stains</td>
<td>Completely blackened</td>
</tr>
<tr>
<td>2000</td>
<td>White surface, dark edges</td>
<td>Dark stains</td>
<td>Completely blackened</td>
</tr>
</tbody>
</table>

\(^1\) - CT1 and CT2 represent two different, widely used chemical treatments
**Salt Spray Test**

- Tested per ASTM B117.
- 5 percent salt solution.
- 30-day test duration.

<table>
<thead>
<tr>
<th>HOURS IN TEST</th>
<th>ACRYLUME® COATED SHEET</th>
<th>CT1</th>
<th>CT2</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>No Activity</td>
<td>White haze with black spots</td>
<td>White haze with small black spots</td>
</tr>
<tr>
<td>500</td>
<td>Tiny spots, evidence of initial activity</td>
<td>White haze with black streaks</td>
<td>White haze with small black streaks</td>
</tr>
<tr>
<td>720</td>
<td>Small spots with local light streaks</td>
<td>Light haze with dark spots</td>
<td>Dark haze with dark spots</td>
</tr>
</tbody>
</table>

1 - CT1 and CT2 represent two different, widely used chemical treatments

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