# PA-311 R Adhesive

## Product Description
PA-311 R Adhesive is a specially formulated cold process adhesive designed for use with Siplast Paradiene 20/30, Paradiene 40 FR, and Parafor 50 LT Roofing Systems. PA-311 R Adhesive is an asphalt cutback adhesive containing non-asbestos fibers and special bond enhancing modifiers.

## Product Uses
PA-311 R Adhesive is designed for use with Siplast Paradiene 20/30, Paradiene 40 FR, and Parafor 50 LT Roofing Systems at roof inclines in excess of 1/4 inch (2%) per foot. PA-311 R Adhesive is not approved for use with Siplast Veral Roofing and Flashing Systems. Contact Siplast for specific approval for other product uses.

PA-311 R Adhesive can be applied by brush, roller, squeegee, Paraflow Adhesive Spreader, or spray unit. Base ply application rates will vary over irregular or porous substrates. Inter-ply applications typically require approximately 1½ to 2 gallons per square (0.6 - 0.8 liters per square meter). On granule-surfaced materials, end lap usage of PA-311 R Adhesive should be approximately double that of the field sheet application.

## Temperature Considerations and Limitations
In ambient temperatures below 50°F (10°C), materials should be stored in a warm environment and the use of pre-heaters or in-line heaters may be required in order to obtain the minimum desired material temperature of 70°F (21°C) at point of application. Membrane materials should be stored in a warm place prior to application in order to facilitate proper installation and avoid wrinkling. Additionally, rolls may be unrolled and relaxed and/or cut into shorter lengths to avoid wrinkling.

## Product Approvals
PA-311 R Adhesive is approved by Factory Mutual Research (FM Standard 4470) for use as a Siplast Paradiene 20/30 and Paradiene 20/30 FR adhesive in Class 1 insulated steel roof deck constructions and insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

PA-311 R Adhesive is Listed by Underwriters Laboratories as a substitute for Type IV asphalt for all cULus Classified Siplast Paradiene and Parafor Roof Systems.

PA-311 R Adhesive meets current regional VOC regulations.

VOC content: This product contains an average 239 g/l VOC.

## COMMERCIAL PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Unit</th>
<th>Coverage:</th>
<th>Thickness @ 1½ gal/sq:</th>
<th>Thickness @ 2 gal/sq:</th>
<th>Coverage Weight @ 1½ gal/sq coverage:</th>
<th>Coverage Weight @ 2 gal/sq coverage:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Gallon Pail</td>
<td>1½ - 2½ gal/sq</td>
<td>24 mils (0.6 mm)</td>
<td>32 mils (0.8 mm)</td>
<td>14 lb / square (0.7 kg/m²)</td>
<td>19 lb / square (0.8 kg/m²)</td>
</tr>
<tr>
<td>55-Gallon Drum</td>
<td>1½ - 2 gal/sq</td>
<td>24 mils (0.6 mm)</td>
<td>32 mils (0.8 mm)</td>
<td>14 lb / square (0.7 kg/m²)</td>
<td>19 lb / square (0.8 kg/m²)</td>
</tr>
<tr>
<td>350-Gallon Tote</td>
<td>1½ gal/sq</td>
<td>24 mils (0.6 mm)</td>
<td>32 mils (0.8 mm)</td>
<td>14 lb / square (0.7 kg/m²)</td>
<td>19 lb / square (0.8 kg/m²)</td>
</tr>
</tbody>
</table>

Flash Point, Cleveland Open Cup: >105°F min. (41°C)

Recommended adhesive temperature for application - 70°F (21°C) (minimum)

## Storage and Handling
Storage and Handling: All containers of PA-311 R Adhesive should be stored upright on a clean, flat surface. Care should be taken that containers are not dropped and container seals are not broken prior to use. All containers should be stored in a dry place, out of direct exposure to the elements, and should be kept away from excessive heat, fire, or open flames.