**PA-311 R ADHESIVE**

**Commercial Product Data Sheet**

**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 on 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>Coverage Weight @ 1½ gal/sq coverage:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Ply</td>
<td>1½ - 2½ gal/sq</td>
<td>24 mls</td>
<td>14 lb / square</td>
</tr>
<tr>
<td>Inter-ply</td>
<td>1½ - 2 gal/sq</td>
<td>32 mls</td>
<td>19 lb / square</td>
</tr>
</tbody>
</table>

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

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

Packaging: The pails are stacked three high on pallets and stretch wrapped.

Pallet: 44 in X 48 in (112 cm X 122 cm) wooden pallet
Number Pails Per Pallet: 42
Number Drums Per Pallet: 4
Number Pallets Per Truckload: 22

Weight Per Pail: 50 lb (22.7 kg)
Weight Per Drum: 563 lb (255 kg)
Weight Per Tote (Full): 4025 lb (1826 kg)

Shipping Classification: White Label (combustible)
Totes shipments require Registered Hazardous Material Carrier and Driver (HazMat).

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.