

# 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 cUL<sub>us</sub> 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

Unit: 5-Gallon Pail  
4.7 gallons (17.8 liters) net content  
Unit: 55-Gallon Drum  
53 gallons (200.6 liters) net content  
Unit: 350-Gallon Tote  
340 gallons (1,287 liters) net content

Coverage:		
Base Ply	1½ - 2½ gal/sq	(0.6-1.0 L/m <sup>2</sup> )
Inter-ply	1½ - 2 gal/sq	(0.6-0.8 L/m <sup>2</sup> )
Thickness @ 1½ gal/sq: 24 mils (0.6 mm)		
Thickness @ 2 gal/sq: 32 mils (0.8 mm)		
	wet film gauge	wet film gauge

Coverage Weight		
@ 1½ gal/sq coverage:	14 lb / square	(0.7 kg/m <sup>2</sup> )
@ 2 gal/sq coverage:	19 lb / square	(0.8 kg/m <sup>2</sup> )
	wet film weight	wet film weight

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.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at [www.Siplast.com](http://www.Siplast.com).

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