

# PA-311 ADHESIVE



## Product Data Sheet

### Product Description

PA-311 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 Adhesive is an asphalt cutback adhesive containing non-asbestos fibers and special bond enhancing modifiers.

### Product Uses

PA-311 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 Adhesive is not approved for use with Siplast Veral Roofing and Flashing Systems. Contact Siplast for specific approval on other product uses.

PA-311 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 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 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 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.

VOC: PA-311 Adhesive meets current regional VOC regulations.

VOC content: This product contains an average 300 g/l VOC.

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

### 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, Pensky-Martens Closed Cup: >108°F min. (42°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: 48 lb (21.8 kg)  
Weight Per Drum: 516 lb (234 kg)  
Weight Per Tote (Full): 3675 lb (1667 kg)

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

Storage and Handling: All containers of PA-311 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.