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*World Oil recycles, produces, and transports vital petroleum products and provides important environmental services in California and throughout the western United States. We deliver more than just high quality, high performance products and services. We offer end-to-end solutions focused on sustainability, environmental protection, and building a better future.*

## **GENERAL INFORMATION**

### **BULK AND CARTON ASPHALT**

World Oil Refining owns and operates one of the most modern refineries in the west. World Oil Refining uses western crude oil to produce air blown asphalt specifically for roofing purposes.

World Oil Refining produces four types of roofing asphalt, each product meeting or exceeding ASTM D-312 requirements, which varies for each type.

*Type I	Dead Level	Type III	Steep
*Type II	Flat	Type IV	Special Steep

\*Type I and II are special order items. Please contact World Oil Refining for specific information.

EVT (Equiviscous Temperature) is the ideal temperature and viscosity for application of asphalt. EVT shall be labeled  $\pm 25$  for each product.

Finished blowing temperature is 500°F. Heating asphalt above the finished blowing temperature for prolonged periods of time will change the physical properties of asphalt.

All cartons have ASTM D-312 EVT, and Flash Point printed on them. Certification for carton asphalt is available upon request.

Consideration must be made for cold climate conditions. Ambient temperature, wind chill factor and deck temperature will affect EVT. EVT should be at high end of the tolerance during these conditions.

The guidelines may be modified to whatever degree is justified by familiarity and experience of those skilled in the art of built-up roofing construction and performance as well as with local roofing practices and local weather conditions. For example, modifications from the suggested guidelines may be made depending upon: the type and occupancy of the building; the nature of the roofing components and the roof system construction, including the type and thickness of the insulation; the application procedures; and the roofing specification. Other considerations may include, but should not be restricted, to the chemical and rheological properties of the asphalt; the type and character of the felt or fabric used; the amount of asphalt used between piles; the color, type, and mass surfacing; and the direction of exposure.



## Asphalt Products

### Roofing Asphalt Physical Requirements ASTM D312 Specifications

Type	Designation	ASTM D-36 Softening Point		ASTM D-92 Flashpoint (COC)	ASTM D-5 Penetration @			ASTM D-113 Ductility @
		Min.	Max.	Min.	32°F	77°F	115°F	77°F, cm
III	Steep	185°F	205°F	575°F	6 min	15-35	90 max	2.5 min
IV	Special Steep	210°F	225°F	575°F	6 min	12-25	75 max	1.5 min
Solubility in Trichloroethylene								99.4% all types

### Typical Physical Characteristics World Oil Refining Asphalt

Type	Designation	ASTM D-36 Softening Point			ASTM D-92 Flashpoint (COC)		ASTM D-5 Penetration @			ASTM D-113 Ductility @		
		Min.	Max.	Typical	Min.	Typical	32°F	77°F Min. Typ.		115°F	77°F, cm Min. Typ.	
III	Steep	194	200	198 °F	575°F	610°F	6 min	21	25	90 max	2.50	2.50
IV	Special Steep	218	225	225 °F	575°F	620°F	6 min	12	15	75 max	1.50	2.00
Solubility in Trichloroethylene										99.4% all types		
Hand Mop EVT @ 125 CPS +/- 25°F		<b>Type III</b>					<b>Type IV</b>					
		Spec.		Typical			Spec.			Typical		
		445°F +/- 25°		403°F			430°F +/- 25°			455°F		
Machine Spread EVT @ 75 CPS +/- 25°F		<b>Type III</b>					<b>Type IV</b>					
		Spec.		Typical			Spec.			Typical		
		445°F +/- 25°		430°F			460°F +/- 25°			485°F		

World Oil Refining suggests contractors apply our built-up roofing asphalt to normal industry standards. The application temperature is very important; World Oil Refining Asphalt should be applied at the Equal Viscous Temperature plus or minus 25°F from the ASTM specifications.

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