

### PERMA-TAC® 99

**Application**

Liquid antistrip for hot-mix asphalt pavements.

**Advantages**

- *Heat Stability:* Perma-Tac 99 meets the heat stability test requirements of state highway testing laboratories.
- *Easy Handling and Storage:* Perma-Tac 99 is a low viscosity liquid product with good low temperature handling properties.

**Typical Dosage**

0.25-0.75% by weight of asphalt is recommended, which should be determined in laboratory mix design tests.

Perma-Tac 99 is preferably added to the asphalt at the hot-mix plant by means of a specially designed injection system.

Alternatively, the product can be incorporated into the asphalt by mechanical agitation, pump circulation of the storage tank, or by injection into the asphalt loading line followed by recirculation through the truck bypass system until properly mixed.

**Physical Properties**

Appearance at 25°C	Dark brown liquid				
Pour point, °C	<4 (<40°F)				
Flash point, °C	>200 (> 392°F)				
	10	20	30	40	°C
	50	68	86	104	°F
Viscosity, mPa.s (cP)	540	240	130	70	
Density, g/cc	1.01	1.00	0.99	0.98	
Density, lbs./gal	8.44	8.34	8.26	8.18	

See reverse for additional data

**Storage and Handling**

Perma-Tac 99 may be stored in carbon steel tanks. Bulk stores need not be heated. Avoid heating above 65°C (150°F).

Perma-Tac 99 contains amines and may cause severe irritation or burns to skin and eyes. Protective gloves and safety goggles must be used when handling this product. For further information, consult the Material Safety Data Sheet.

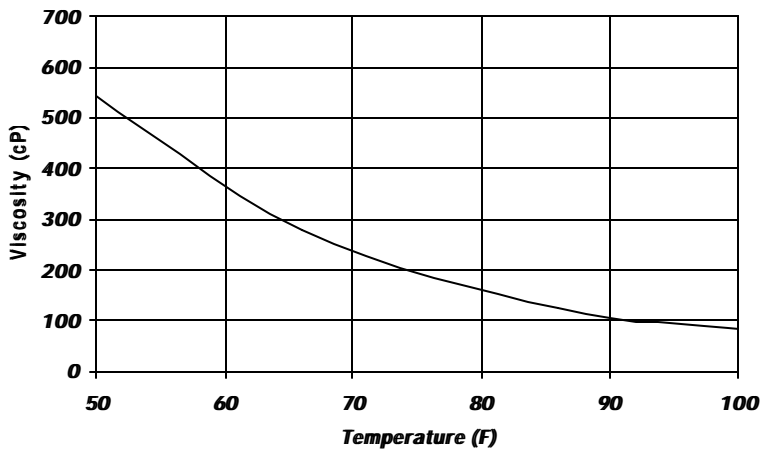
**Packaging Information**

Perma-Tac 99 is available in bulk shipments or in 55-gallon tight-head drums of 400 lbs. (181 kg.) net weight.

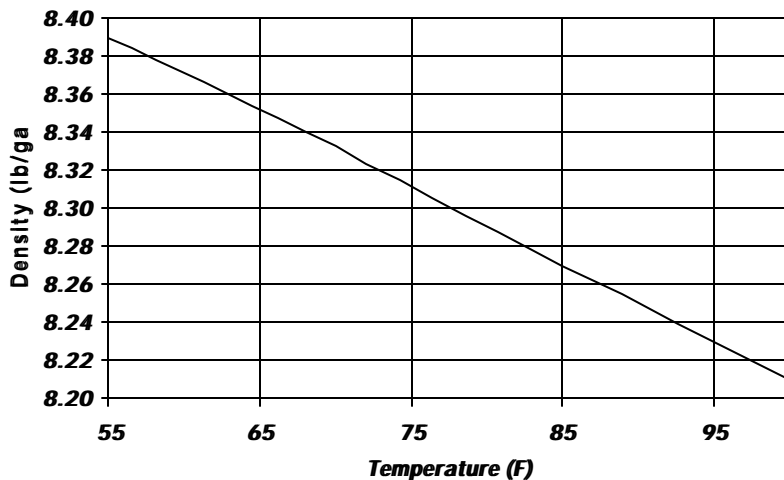
**Notes**

For regulatory reasons this product is not available in Canada.

**Viscosity vs. Temperature**



**Density vs. Temperature**



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