

# Technical Information

# **Asphalt Applications**

## REDICOTE® E-2199

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Emulsifier for cationic slow-setting asphalt emulsions.

### Advantages

- Solvent-Free Dense-Graded Mixes: Emulsions prepared with Redicote E-2199 provide extended workability time to dense mixes based on crushed aggregate, reclaimed asphalt pavement or soils. Emulsions can be combined with cement or lime for improved strength and water resistance.
- Slurry Seal: Emulsions prepared using Redicote E-2199 allow adequate mix time with the most difficult aggregates and at high temperatures, without the need for additives.
- Handling and Storage: Redicote E-2199 does not contain flammable solvent, has little tendency to separate during storage and dissolves easily in the soap phase without a tendency to cause odors.

Typical Emulsion		CSS -1h		
Formulation	Asphalt	57+		
	Redicote E-2199	0.8 - 1.2		
	Hydrochloric acid*	0.1 - 0.25		
	pH soap	1.7 - 2.5		
	Calcium chloride	0 - 0.1		
	Water	to 100		

<sup>\*22°</sup>Baume or 35% wt %

Alternative acids such as sulfuric or phosphoric may be used

Physical	Appearance at 25°C	dark viscous liquid					
Properties	Pour point, °C	<5 (<41°F)					
	Flash point, °C	>100	>100 (>212°F)				
		10	20	30	40	°C	
		50	68	86	104	°F	
	Viscosity, mPa.s (cP)	4810	1900	1100	600		
	Density, g/cc	1.12	1.10	1.08	1.06		
	Density, lbs./gal	9.31	9.15	8.99	8.85		

See reverse for additional data

### Storage and Handling

Redicote E-2199 may be stored in carbon or stainless steel tanks. Bulk storage should be maintained at 20-40°C (68-104°F).

Redicote E-2199 is alkaline and may cause severe irritation or burns to skin and eyes. Protective goggles and gloves must be worn when handling this product. For further information consult the Material

### Safety Data Sheet.

### Packaging Information

Redicote E-2199 is available in bulk shipments or in 55-gallon tight head drums of 450 lbs. (205kg) net weight.

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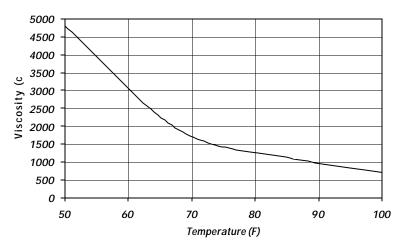
100

# 9.40 9.30 9.20 9.10 9.00 8.90

### Viscosity vs. Temperature

Temperature (°F)

70



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8.80

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