

STATE OF NEBRASKA  
DEPARTMENT OF ROADS  
ADDENDUM NO. 2  
PROJECT NO. PM-D4(1006)  
CONTROL NO. 49903C  
CALL ORDER N09  
VARIOUS LOCATIONS IN THE ORD AREA  
LETTING DATE: MAY 23, 2002

The Special Provisions are amended to include the following:

FOG SEAL EMULSION

Requirements

- a. The emulsified asphalt Supplier shall have a minimum of 5 years experience producing this type of emulsified asphalt.
- b. The emulsified asphalt must contain a minimum of 18 percent Gilsonite.
- c. The emulsified asphalt must not contain tall oil pitch.

Specifications for Emulsified Asphalt Concentrate

Saybolt Viscosity at 77°F (25°C) ASTM D-244.....20 to 100 seconds  
Residue by Distillation, or Evaporation .....57% min.  
Sieve test ASTM D-244 (two tenths of one %) .....0.2%  
5 day Settlement test ASTM D-244 .....5.0% max.  
Particle charge (1) ASTM D-244 .....Positive

Specifications for Diluted Emulsified Asphalt

Saybolt Viscosity at 77°F (25°C) ASTM D-244.....10 to 50 sec.  
Residue by Distillation, or Evaporation .....28% to 42%  
Pumping Stability test (2) .....Pass

Tests on Residue from Distillation, or Evaporation:

Viscosity at 275°F (135°C) ASTM D-4402 .....1750 cps max.  
Solubility in 1, 1, 1, trichloroethylene ASTM D-2042 .....97.5% min.  
Penetration ASTM D-5 .....50 dmm max.  
Asphaltenes ASTM D-2007 .....15% min.  
Saturates ASTM D-2007 .....15% max.  
Polar Compounds ASTM D-2007 .....25% min.  
Aromatics ASTM D-2007 .....15% min.

- (1) pH may be used in lieu of the particle charge test which is sometimes inconclusive in slow setting, bituminous emulsions.
- (2) Pumping stability is tested by pumping 1 pint, (475 ml) of diluted emulsified asphalt (1 part concentrate to 1 part water), at 77°F (25°C), through a ¼ inch gear pump operating at 1750 rpm for 10 minutes with no significant separation or coagulation.

DEPARTMENT OF ROADS

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Issued: May 10, 2002

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NOTICE: Only the contractors issued bidding proposals receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the contractor.