COHEREX® Product Data Sheet

Description and Physical Properties

Coherex® Dust Control Agent is a slow curing emulsion of petroleum resins in water. It is used as a spray-applied treatment on unpaved surfaces, eliminating airborne dust and retarding surface deterioration. Coherex dust control agent will not leach from soil once it is fully absorbed. Coherex forms a film coating on the dust particles, creating a cohesive membrane that attaches the dust particles to themselves, creating large "agglomerates" too heavy to be dislodged by wind or traffic. Coherex emulsion is formulated with wetting agents that permit the dilution of the emulsion with almost any water available, increases the spreading power of the diluted emulsion, and facilitates penetration of the resinous particles into soils. Coherex emulsion is normally diluted with water to achieve the desired residual concentration.

Physical Properties:

- Boiling Point (F): 212ºF
- Specific Gravity (H20=1): 1
- Percent Volatile: 0
- Solubility In Water: Soluble
- Appearance And Odor: Yellow liquid, faint petroleum odor
- Flammability: Non-flammable in water-based state

Recommended Use

Coherex® dust control agent is excellent for use on such surfaces as unpaved roads, shoulders, driveways, utility yards, orchards, vineyards, campsites, railroad grades, slope stabilization, ores, vacant fields, ballparks and playgrounds. It can also be used for road base stabilization. Coherex should be diluted with water; typically between 1:4 to 1:7 (product : water). With a buildup of residual over regular use, continued long-term treatments potentially can be reduced to 1:10 to 1:15 dilutions. The diluted Coherex application rate is generally ½ to 1 gallon per square yard. The buildup of Coherex resin will remain in the soil, allowing future grading. It should be applied with well-calibrated distributors, spreader trucks, hand sprayers, orchard sprayers, or other standard equipment. The shot rate is determined by the composition of the existing surface. The distributor nozzles and spray bar should be sized and set to deliver the desired shot rate.

Specifications:

Coherex® Emulsion	Test Procedure	Min	Max
Viscosity, Saybolt Furol, 77°F (25°C), sec.	T59	15	40
Sieve test, %	T59 (mod) [1]	–	0.1
Particle Charge Test	T59	Positive	
Residue by evaporation, % by wt.	T59 (mod) [2]	60	65

[1] Test procedure identical with ASTM & AASHTO except that distilled water shall be used in place of 2% sodium oleate solution.
[2] ASTM D-244/ AASHTO T59 Evaporation Test for percent of residue is modified by heating 50 gram sample to 149°C (300°F) until foaming ceases, then cooling immediately and calculating results.

Coherex® Base Oil	Test Procedure	Min	Max
Viscosity @ 212°F (100°C), cSt	D-445	17.17	23.83
Flash Point, COC, °F	T48	208	
Asphaltenes, % by weight	D-2006-70		0.75
Saturated Hydrocarbons, % by weight	D-2006-70		20
Specific Gravity	T277	1.000	1.040

Storage and Handling

The water-based emulsion should not be exposed to freezing temperatures or overheating. The emulsion is a chemically stabilized system, so care should be taken not to upset the chemical balance with contamination by chemicals, over-exposure to air, or adverse mechanical or thermal conditions. Before being filled, tanks and trucks should be examined for possible contaminants. Tanks may be circulated top to bottom with a pump, but over-pumping is to be avoided. Recommended use and storage temperatures are given in the table.

Recommended Temperatures	Min	Max
Storage	60°F	160°F
Application	60°F	160°F

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