

EVERYTHING ASPHALT

Dust Control



"Dust control is the number-one summer maintenance problem on unpaved roads."

Better Roads, April 1992

Safer Pavement, Safer Air

Applying an asphalt emulsion or other dust control product to unpaved roads can significantly reduce the amount of particulates emitted into the air. It is an effective treatment on gravel roads, quarries and construction sites. It is estimated that a single vehicle traveling at thirty miles per hour on a mile of gravel road produces four and one half pounds of dust. The light application of asphalt also provides some protection to the road surface. There are several asphalt emulsion alternatives depending on the needs of the project. Typically, the emulsion is diluted at a rate of 4 or more parts water to each part of emulsion then applied at 0.20 to 0.50 gallons per square yard. The extra water acts as a carrier to help the asphalt penetrate into the surface.



Martin Asphalt Products for Dust Control

CSS-1	Cationic slow setting emulsion used for many applications, including dust control. It works best on a new base or open textured road, and should be diluted at least 3:1 with water.
SS-1	Anionic slow setting emulsion, used for many applications, including dust control. It works best on a new base or open textured road, and should be diluted at least 3:1 with water.
EAP&T	Emulsified Asphalt Prime and Tack is an excellent product for dust control. This anionic emulsion should be diluted 3:1 to 8:1 with water. It penetrates very well in most road base materials.
PCE	An anionic, non-asphalt emulsion which is low odor and non-tracking. PCE should be diluted at least 3:1 with water.
Coherex®	A slow setting emulsion of petroleum resins in water. Typically diluted 4:1 to 7:1 with water, depending upon the condition of the existing surface. The resins build up in the pavement, allowing future grading and lower application rates. The emulsion is formulated with special wetting agents, increasing the spreading power, allowing dilution with almost all types of water, and facilitating penetration of the resinous particles into soils.

Dust Control Benefits

- Application of asphalt emulsion dust control reduces maintenance grading costs from 25 to 75 percent.
- The emulsion significantly reduces gravel loss and sediment runoff.
- The asphalt emulsion results in a higher quality of life and property values for those working and living next to a treated road, reducing dust-related health problems and cleaning costs.

Surface Preparation and Construction

Most dust palliatives are sprayed by a distributor onto the surface with little additional surface preparation. Generally, application rates can vary from 0.20 to 0.50 gallons per square yard. For optimal performance of dust suppressants, the road surface material must be mechanically stable.

Martin Asphalt Makes It Easy

There are a variety of products available for controlling dust. Through Martin Asphalt, you get **Everything Asphalt**—a full range of products for your projects. In addition, you receive technical assistance in selecting the right materials and application. The company's AASHTO Certified Laboratory makes sure the products meet your specifications. And your products are delivered both on spec and on time via Martin's Gulf Coast network of production plants, storage facilities and transportation fleet including ocean-going and inland barges, rail cars and tanker trucks.

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