



DustGuard

Dust Control

BENEFITS

- *Biodegradable*
- *Soil Binder*
- *Co-polymer*
- *Proven Performance*
- *Environmentally Safe*

APPLICATIONS

*Oil Fields
Driveways
Parking Lots
Traffic Roads
Trails
Unpaved Roads
Construction Sites
And More...*

Reliable Fugitive Dust Control

DustGuard is an acrylic co-polymer emulsion with added cohesive agents. Designed as a premium eco-friendly soil binder, DustGuard will hold down the dust and resist weatherability. DustGuard does not contain any materials that are detrimental to the people and the environment, allowing for worry-free application. Depending upon your soil type and proper application, DustGuard can last up to a year. After application, DustGuard will penetrate to lower substrates and will bind the particles together forming heavier solids that will quickly settle back to the surface controls fugitive dust.



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Application Rates & Techniques

APPLICATION INSTRUCTIONS

As with all dust suppressants, application rates and methods depend upon the site, environment, soil type, and more. Please contact your Terra Novo representative for site specific recommendations. Prior to application, the area to be treated must be entirely free from water (not including pre-wetting) and must be free from rain or nuisance water for a minimum of 72 hours following application.

1. Surface Preparation

For best results, smooth, grade & compact the treatment area to a minimum of 95%. If the treatment area is bare soil or clay, loosen the top 1 or 2 inches of soil and then compact prior to treatment.

2. Pre-Wetting

Pre-wet the surface area with water at a rate of 1 gallon to every 100 square feet. This will lower the surface tension of the fines, allowing for deeper penetration.

3. Dilution

Dilute DustGuard at the recommended rates into a water truck. Recirculate in tank. Dilution rates will vary based on soil type and penetration depth and soil moisture content.

4. Application

Apply DustGuard in 3-4 passes. Do not let the application area dry between coats.

5. Curing

For best results, compact the treated area after optimum penetration has been achieved. Cure time is approximately 24-72 hours @ 70 degrees Fahrenheit.

6. Long-Term Maintenance

Visual inspection of treated area will indicate when maintenance is due (i.e. potholes, ripples and rutting).

Application Type	Gallons/Acre	Minimum Dilution Rate
High Traffic Roads	200 +	15:1
Light Traffic Roads	100	25:1
Capping	50	30:1

Contact your Terra Novo representative for site specific application rates and instructions.

SOIL CLASSIFICATION

All soil is not equal. Prior to any dust control recommendations, it is very important to test your soil. Particle size, liquid limit and plasticity can all have a dramatic effect on the success of any dust control measures and should be determined before any application.

Sand Sieve Analysis is a practice or procedure used to assess the particle size distribution of granular material. The size distribution is critical in determining the type of dust suppressant needed and application rates to be used. The practice of Sieving is quick and accurate, measuring the maximum diameter of a sediment grain. There are four aspects of this proven test, including sizing, sorting, kurtosis, and skewness. After the analysis, we can determine the percent sand, silt and clay in your soil, and textural class, hereby recommended an accurate application rate and method for your needs.

We also recommend a soil moisture test to determine the liquid limits of your soil. Depending upon the water content of the soil, it may appear in four states: solid, semi-solid, plastic and liquid. In each state the consistency and behavior of a soil is different and thus so are its engineering properties. Thus, the boundaries between each state can be defined based on a change in the soil's behavior.

All of these tests and classifications will help determine the best dust control product, application rates and techniques to ensure a successful application.

Particle Grade	Size (mm)	Surface Preparation
very coarse sand	1-2	Smooth and level surface prior to application
medium sand	0.25-0.50	
fine sand	0.125-0.25	Loosen top inch of soil prior to application for better coverage/penetration, compact soil after application
silt	0.0039-0.0625	
clay	less than 0.0039	

For technical services, call 1-888-843-1029 or visit us online at www.terranovo.com.