

Knockout Dust Control Program

Finding the right product for your dust control project.



The New Way Forward In Dust Control

A revolutionary new product line deserves a new way of service to win the war on fugitive dust.



Knockout

- ▶ Non-toxic.
- ▶ Environmentally friendly.
- ▶ USDA Certified Biopreferred.
- ▶ Cost effective.
- ▶ Immediate reduction of PM_5 & PM_{10} dust particles.
- ▶ Long lasting.
- ▶ Simple application.
- ▶ Reduction of water usage.



The Knockout Program

Our program is a complete evaluation to capitalize on the most cost effective way to solve the fugitive dust issues that may be present.

Three things will determine amount of application, dilution, and duration of Knockout:

- Soil
- Traffic
- Climate



1. Evaluate Soil Type

Differing soils will accept product in variable amounts.



2. Evaluate Road Usage

- Traffic type (size of vehicles utilizing road).
- Frequency of traffic on road.
- Speed of traffic on road.



3. What is the climate/season?

- Temperature
- Rain or snow
- Humid or arid climate
- Rainy or dry season
- Elevation
- Frequency of wind



Which Product?

▶ Knockout

Absorption Product

This product absorbs the dust particles. It is an interval based solution that utilizes reduced maintenance applications, allowing you to perform road grading maintenance without hindering the performance of the product. Water treatment intervals will reinvigorate Knockout particles. When the water intervals start to lose their efficiency, a diluted application of Knockout will need to be applied to regenerate the binding strength of the product. This can be applied with a water truck or computer rate controlled distributor truck. Knockout is a licensed USDA Certified Biopreferred product.
www.biopreferred.gov

▶ DustPly C

Stabilized Product

This products forms a wet matrix on the soil surface. When the matrix is absorbed, the tackifier binds the soil particles together. Knockout-DustPly C has superior adhesion to various types of soils and sand for greater longevity. This product stabilizes the road surface so that grading maintenance is not required during its lifespan. This can be applied with a water truck or computer rate controlled distributor truck.

Preferred Initial Application

1. Pre-water the surface.
2. Scarify surface to a depth of three inches.
3. Water the surface.
4. Apply DustPly C or Knockout at recommended ratio and dilution. Cure time for DustPly C will vary with climate. Knockout is ready without cure time.
5. Re-grade and compact roadway (optional).



Alternate Initial Application

1. Pre-water surface so water penetrates to a depth of at least one inch.
2. Dry to “no standing water” conditions.
3. Apply DustPly C or Knockout in successive applications to prevent product from running off of the edges (four to six passes allowing absorption).
4. Cure time for DustPly C will vary with climate. Knockout is ready without cure time.



Maintenance Application

1. Pre-wet the surface.
2. Apply a less concentrated, diluted application that will be determined after evaluating the performance of the initial application.

Maintenance will be required to include the new foreign dust introduced after initial application. Rock pulverization by vehicle weight will create more dust. Mud will fall off of tires and wheel wells, etc. onto treated surfaces causing foreign, untreated dust that needs treatment. A less concentrated dilution is all that is needed to restore effective dust control.



Dust Monitoring

- ▶ A specialized device can be used to measure fugitive dust prior and post application.
- ▶ Using this device will help to monitor and prove the success of the project.
- ▶ The monitor will help to maximize the efficiency of the Knockout products and will determine when to do a maintenance application.
- ▶ PM5 and PM10 levels can be measured using these devices.



30 Day Evaluation Program

- ▶ Evaluate project location.
- ▶ Determine the three factors:
 - Soil Type
 - Road Usage
 - Climate
- ▶ Calculate dilution and coverage ratios.
- ▶ Design interval of water/Knockout application.
- ▶ Customize new water truck utilization plan (parking trucks).
- ▶ Develop dust monitoring program.