



Commercial Dust Control

General Preparation and Application Guidelines

SURFACE PREPARATION

Recommended Equipment:

- Motor Grader with a Rotating Teeth Cutting Blade
- Pressurized Water Distributor Truck

MATERIAL

The existing surface should contain a good mixture (gradation) of coarse to fine material with a maximum size of 1 inch down to a fine dust. 18% to 25% of the existing surface material should be a fine dust that passes a -200 size mesh screen.

If new material needs to be added to the existing surface, a good quality 1-inch maximum size “crusher run” material having 18% to 25% of -200 mesh fines should be used. This new material will need to be blended with the existing surface material.

SHAPING

An unpaved road should be crowned and shaped to final grade to form a smooth surface. In most cases a modified A crown is adequate to provide proper drainage. The road surface should slope ½ inch per linear foot from the center of the road. (If the road is not crowned, the surface will be more susceptible to forming potholes, especially at intersections and driveway approaches).

Grading is always required, especially if the surface contains hard, crusty or tire polished areas or if other dust control products have previously been used.

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APPLICATION GUIDELINES

Recommended Equipment:

Pressurized Water Distributor Truck Equipped with a Rear Mounted Spray Bar
Pneumatic (Rubber Tire) Roller (optional)

PRE-WET (optional)

The dust control application must penetrate the surface in order to be effective. Water helps to lower the surface tension of the dust control product and allows the dust control application to penetrate. We recommend a pressurized spray bar for even distribution and deeper penetration. The freshly bladed surface should be pre-wetted just prior to the dust control application. The number of gallons of water to be applied to the surface prior to the dust control application will often need to equal the number of gallons of dust control product that is to be applied.

An optimal moisture content of 7% (forms a mud ball) in the surface material is recommended. More water may be needed if dry conditions exist. The timing and amount of water used is dependent upon many circumstances and should be handled on an individual basis.

SPRAY

The recommended application rate for a dust control treatment should not be less than 0.35-0.60 gal./sq. yd. Application rate may vary based on product used, condition of surface and amount of traffic. Let your Scotwood Industries representative formulate a plan tailored to your needs.

For best results, traffic should not be allowed on a treated surface until it has started to cure. This will normally be a few hours. Curing is dependent upon outside temperature, wind and humidity. If traffic must immediately use the treated surface, vehicles and speed should be kept to a minimum.

ROLL (optional)

After the final pass is complete and enough time has passed for surface curing to begin, rolling the surface with a pneumatic (rubber tire) roller is recommended. Rolling will compact the surface and seal in the moisture created by the combination of water and the dust control treatment. Care should be taken to ensure that the surface has cured long enough that the roller does not damage the surface during the rolling process. If the new treated surface is "picked up" or sticks to the rubber tires, stop the rolling and allow more time for the surface to cure.

If a pneumatic roller is not available, the treated surface should be turned back to traffic as soon as possible after initial curing. The passing vehicles will help compact and seal the treated surface. Care should be taken to ensure that the surface has cured long enough that passing vehicles do not damage the new treated surface. Compaction is dependent on many circumstances and should be handled on an individual basis.