



# Linn County Secondary Road Department

## Dust Control Information Sheet

### Dust Control Sign Up Periods:

Permits can be applied for at the Linn County Engineer's Office or printed from the website and mailed in with payment. Payment is due at the time of permit application and must be received by the deadline.

#### 1<sup>st</sup> Signup

- April 1 – May 10
- Chloride, Oil & Seal Coat

#### 2<sup>nd</sup> Signup

- June 1 – July 10
- Chloride

This Informational Brochure pertains to dust suppression products purchased through the Linn County Secondary Road Department. It should be noted that no product will produce a completely dust free experience. This is not an extensive or exhaustive list of all dust control products available on the market today. If you choose to use a private dust control applicator through our permit process you will need to determine which of their products best fit your situation.

### Calcium Chloride:

- Economical for dust suppression.
- May be applied twice per season through county program or more often privately.
- Does not change the appearance of the road very much.
- Routine road maintenance (blade operation) does not eliminate the effectiveness.
- Reduces dust, does not eliminate dust.
- Calcium chloride is hygroscopic, meaning it draws moisture from the air to keep the road damp. Effectiveness depends on having enough moisture to form and retain large particles of road fines.
- It is water soluble, losing effectiveness over time with single application having at most a one year service life.



*Calcium chloride was applied to the crushed stone road approximately 7 months prior to the picture for dust suppression.*

## MC-70 Road Oil:

- MC-70 is a liquid asphalt cut with kerosene or diesel.
- Typically applied once per season in county program.
- MC-70 (Road Oil) is dark black with sand (or fine limestone chips) used to blot and reduce vehicle tracking. It will turn to a grey color over time as it oxidizes.
- The road should be solid (stable) and proper shape (crown) before application of MC-70 (Road Oil).
- Maintenance (pot hole patching) is the responsibility of the permit holder. Up to one ton of patch material (cold mix) may be picked up at county shops with current (new or retain) permit.
- The service life for MC-70 (Road Oil) is expected to last from application to October 31. This varies greatly depending on traffic, road stability prior to application, and owner maintenance effort. No warranty is provided with the application of MC-70 (Road Oil). This type of dust control is allowed to remain until it affects traffic. Owners looking for review of dust control beyond the original season are encouraged to apply for a "retain permit." The permit provides review, notice as dust control affects traffic, and access to up to one ton of additional patch (cold mix) for maintenance and extending service life.
- The Secondary Road Department reserves the right to tear up MC-70 (Road Oil) when it has a negative effect on traffic. Owners applying for a retain permit are encouraged to provide a picture of the existing condition of the dust controlled section.



*MC-70 Road Oil was applied over the crushed stone road approximately 8 months prior to the picture for dust suppression. Proper maintenance by the owner will result in a long lasting product.*

## MC-3000 Seal Coat:

- MC-3000 is a liquid asphalt cut with much less kerosene or diesel. It is more viscous than MC 70. This product applied over MC-70 to create a multilayer surface commonly called chip seal or seal coat.
- Applied once as directed by the permit holder through the county program.
- MC-3000 is black. Seal coat is gray or tan depending upon the source of the limestone chips used for wearing surface, oxidation turns it to a gray color over time no matter the original color of the chips used.
- A seal coat will initially have dust from the limestone chips used for the wearing surface. Once excess and loose chips 'kick' off from traffic and weather, the surface dust is minor.
- The road should be solid and proper shape (crown) before application of seal coat.
- Maintenance (pot hole patching) is the responsibility of the resident. Patch material may be picked up at shop locations after the first year of service by purchasing a retain permit.
- The service life for seal coat is varies widely depending upon maintenance, road stability, weather, and traffic. First seal coat applications have a relatively short service life. Second and third seal coats applied over intact and stable existing seal coats have a much longer service life. No warranty is provided with the application of seal coat.
- The Secondary Road Department reserves the right to tear up seal coat when it has a negative effect on traffic.



*MC-3000 Seal Coat was applied over the crushed stone road approximately 2 years prior to the picture for dust suppression. Weather and traffic have turned the Seal Coat to a grey color with minimal dust. Proper maintenance by the owner will result in a long lasting product.*