



## LYMAN DUST CONTROL, INC

P.O.Box 1460,  
Hayden, ID  
83835-1460

# Asphalt Penetrator

### Emulsions for Cost Effective Dust Control

Asphalt Penetrator is an economical dust palliative product, formulated to work with local materials and local conditions. How do they work? The water and emulsifying agent act as carriers for the tiny asphalt droplets to penetrate and fully coat the surface. The soapy emulsifier makes the water "wetter", to aid in the dispersion. As the emulsion cures, the water evaporates, leaving the asphalt to encapsulate the dust and protect the surface.

### Environmentally Friendly Water Based Emulsions

Because the [emulsions](#) are water based, they are easy to handle. After the emulsion has cured, the asphalt waterproofs the surface, and doesn't run or wash off into fields or streams.

### Lasting Results

The asphalt not only keeps the dust down, but actually upgrades gravel roads. The traffic load is an important factor on the durability, but our customers usually find the treatment lasts for the entire season. Typically, it will be applied in the spring, and not need re-treatment until the next spring. And then, often a single application at a lower shot rate will suffice. The application also prepares the surface for possible future asphalt treatments, such as [chip seals](#), [cold mix](#) and hot mix.

Asphalt emulsions came into general use in the 1920's, primarily for spray applications and use as [dust palliatives](#). The use of emulsions and range of their applications continuously grow as emulsion and construction technologies are improved. Currently, virtually any paving technique can be done using asphalt emulsions. Choosing the right emulsion and application technique can yield significant economic and environmental benefits.

There are several reasons for increasing interest in the use of asphalt emulsions:

- Energy Savings. Emulsified asphalt does not require a petroleum solvent to make it liquid. (However, some medium-setting grades contain limited amounts of solvent to

enhance mixing qualities.) Asphalt emulsions can also be used in most cases without additional heat.

- The ability of certain types of asphalt emulsions to coat damp aggregate surfaces. This reduces the fuel requirements for heat for drying aggregates.
- Availability of a variety of emulsion types. New formulations and improved laboratory procedures have been developed to satisfy design and construction requirements.
- The ability to use cold materials at remote sites.
- The ability to handle asphalt emulsions at lower temperatures, and the lower flammability of water based materials.
- The ability to increase the service life of slightly distressed existing pavements. [Preventative maintenance](#) is a more cost-effective use of highway dollars.
- The ability to [recycle](#). Asphalt emulsions are being used extensively in a variety of recycling systems. They are particularly suited to [in-place recycling](#). Pavements constructed with asphalt emulsions will also be able to be recycled in the future.



## Regional Phone Numbers

TOLL FREE: 1-800-952-6457

FAX: (208) 772-4787