

PRODUCT PROFILE

CALCIUM CHLORIDE FOR DUST CONTROL AND BASE STABILIZATION

Control of dust on unpaved roads is important both for reduced maintenance costs and for problems caused by dust entrained in the air. Dust is also a nuisance to nearby activities, a hazard to drivers, detrimental to crops, and is an air pollutant to the environment.

Every unpaved road requires some type of regular maintenance. Unstabilized roads eventually require expensive repairs including patching and reformation of the crown and shoulders. This type of repair may take several days to complete. A stabilized road usually only requires light blading, which can be completed in a few hours.

Calcium Chloride, when added to the roadway or subgrade stabilizes the soil by attracting moisture out of the air to keep the surface and sublayers moist. It actually forms a thin liquid coating on each dust particle and aggregate. This allows the dust particles to remain in place. By keeping the fines on the roadway surface, the particles are left to perform the job of binding the surface together. The bonding action provided produces a firm, compact surface. Calcium Chloride also adds density to stabilize the surface. It will also help prevent frost formation in the sublayers, eliminating freeze-thaw damage.

During hot, dry days, some of the moisture may be lost to the atmosphere; however, this is returned by reabsorption from damp night air. If the relative humidity level drops below 30%, additional watering of the ground may be necessary to obtain a dust free condition. Calcium Chloride holds onto water already present in the soil. A single application of Calcium Chloride can keep dust under control for weeks.

Hill Brothers supplies Calcium Chloride in both dry (anhydrous) and liquid form. HB Liquid Calcium Chloride may be sprayed on an unpaved roadway surface for dust control. Anhydrous Calcium Chloride can be premixed into the aggregate or applied directly to the roadway surface. It can then be mixed by blade or traveling rotary mixer when preparing the road for base paving. Calcium Chloride may also be used to solve dust problems around the home.

Anhydrous Calcium Chloride may be spread by lawn seed or fertilizer spreader to control dust on unpaved walks, driveways, or other dusty areas. The following application rates are recommended: 0.097 – 0.27 gallons per square yard (liquid) or 0.5 – 1.5 pounds per square yard (anhydrous).

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The information on this Product Profile is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose. For latest product specifications, contact our nearest sales office.

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Phoenix, AZ • Tucson, AZ • Pacific Northwest • International Sales



Hill Brothers Chemical Co.
Corporate Office
1675 North Main St.
Orange, CA 92867-3499
(714) 998-8800
www.hillbrothers.com