



THE NATURAL CHOICE FOR DUST BINDING



Dust binding is a simple process that brings a cleaner environment on roads, work places, vegetable growing areas, and leisure fields. It provides a long-term usage of the infrastructures creates safer conditions at a low total cost and gives more satisfaction to the users.

Binding dust can particularly be done by using Calcium Chloride as described in this brochure.

TETRA Chemicals Europe AB is the leading producer of calcium chloride, with production facilities in Sweden, Finland, Holland, and a strong logistic network including warehouses and terminals.



Good road maintenance

It is not only a nuisance for the traffic and the habitants when the gravel roads get dusty; it is also bad business for the owner of the road. The dust contains the small fine particles and when they dust away the road loses its consistency.

Above all there are three events that can be prevented by dust binding a gravel road:

- 1 That the road starts to dust away due to lack or inferior combination of gravel particles.
- 2 That the gravel road loses its shape.
- 3 That the smoothness of the road declines and that potholes and washboards appear.

A gravel road that has a smooth, firm surface and a good friction is safer and more comfortable to drive. It also decreases the damage to cars compared to non-treated gravel roads. Preventive maintenance is beneficial for the economy of the road owner, for the surrounding environment and for traffic safety.

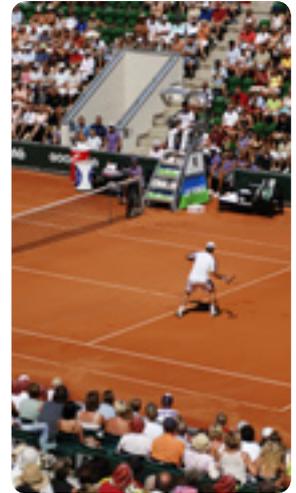
Binding the dust on a regular basis makes the road easy to maintain in a good standard without the need to start costly renovation projects. The economical aspect is also appreciated of the forestry which always requires quick and reliable delivery of the raw material.

The most common and most cost efficient product for dust binding is CC road - Calcium Chloride – from TETRA Chemicals Europe AB. It is also the 1st choice product of the Scandinavian Road Authorities.

A better environment

Binding dust on work places like mines, building sites and many industrial areas leads to a better working environment. The conditions become safer, the visibility is good, and a more efficient work can be done when dust do not fly away around vehicles and workers. A more pleasant working environment is also a source of efficiency.

In agriculture dust can be a problem when it covers fruits and vegetables as it gives an appearance of dirt. A preventive dust binding allows a more natural handling of the goods and avoids extra washing steps. This means economy savings.



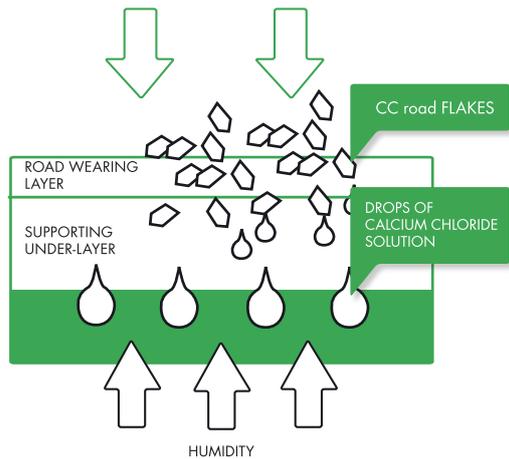
In the leisure area, this application is today highly appreciated on tennis courts, hippodromes, market places and in parks.

Dust can also be a source of development of allergies and asthma, which is a major problem for millions of people. By reducing the quantity of dust in the air, we reduce also the risk for these people to be sick. It improves the quality of life.

As a matter of fact the European Union gets increasingly concerned regarding the quality of the air in public places. Regulations are in place and rely on different parameters among others the so-called PM10 methodology, which qualifies the amount of fine particles (below 10 microns) in the air.

This is how it works

CC road consists of flakes smaller than 5 mm. These flakes are spread on the surface to be treated. Because CC road is hygroscopic the flakes will absorb humidity from the ambient air and form a solution which penetrates into the soil and surrounds the grains of sand and clay with a layer of moist. As this solution has a lower steam pressure than water, the moist stays on the road surface even when the weather gets really dry.



The CC road flake will quickly form into liquid which will penetrate the road and cover each particle of sand and clay with a layer of moist, which will keep the road from dusting over a long period.

Binding dust at springtime

The treatment of the surfaces by using CC road flakes is recommended to be performed during the spring season and in general after rain. This allows CC road to quickly absorb and bind the humidity.

Dosage

On a humid newly scraped gravel road one should spread 0.3-1.5 kg CC road per road meter. TETRA Chemicals Europe AB can help you choosing a dosage adapted to your situation.

CC road in a ready mix solution

An alternative to flakes is the ready mix solution. This is available in several concentrations between 30% and 36% calcium chloride. Using liquid has a number of advantages like a good homogeneity of the spreading, regardless of the weather, and the economical advantage of being able to pump back unused CC road to the storage tank. Finally the working environment becomes better as no direct contact with the salt is necessary and the cleaning of equipment and machinery is easy.

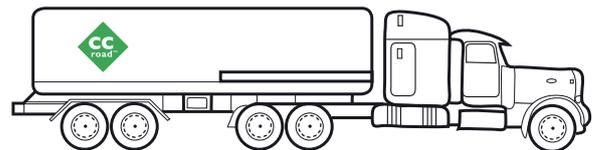
Product information

CC road is available as 77% concentration flakes packed either in 1000 kg Big-Bag or in bags of 25 kg on a pallet. It is also available in solution in concentrations 30%-36% delivered in tank trucks.

We invite you to visit our web site from where both Material Security Data Sheets and Technical Sheets can be downloaded. www.tetrachemicals.com.



CC road can be delivered in plastic bags of 25 kg or 1000 kg.



CC road in liquid form is delivered as bulk in tank trucks.



TETRA is the largest producer of Calcium Chloride in the world. Beside several plants in US we have production in Sweden, Finland and in the Netherlands. We can offer both liquid and solid Calcium Chloride in Road, Food and Technical grades. In order to guarantee quick and safe deliveries we have built up an efficient network of transporters and distributors in Europe.

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