

HRDC

Watering is one of the most common dust control methods, and many site operators think of it as a “free” dust control.

But this is not so: not only does watering cost money in and of itself because of the continuous interventions, but it can give rise to other problems such as damages to roads causing potholes and rutting. Besides, we should not underestimate the importance of reducing the waste of water.

HRDC is the ideal product since it considerably breaks the water tension which is generally very hard and contains minerals and other components that contribute to a larger water droplet size. In order to effectively wet dust particles, even the finest ones, it is important that water droplets have a similar diameter. **HRDC** breaks the droplets surface tension to enable water to “wet out” fine dust particles quickly.

Each new application of water treated with **HRDC** receives a boost from the residual material of the previous application. Moreover the residual materials of **HRDC** are activated by rainfall, so the results are an increased wetting of dust,



slower evaporation of water, increased ground moisture, better surface compaction with less surface deterioration. Therefore there are no potholes and rutting creating dust and the surface keeps its optimal condition.

Thanks to **HRDC**, wet dust particles re-

main on the surface longer, increasing the duration of water applications, which means significant savings. Considering this value for money, **HRDC** should be used by anyone who uses water to control dust on roads such as building sites, mining, earth moving, landfills, etc.



The droplets on the left of each frame are plain water, while *those on the right show a superior penetration ability since they have been combined with HRDC.*



If water remains ON the surface... *we bring it UNDER the surface!*



HOW DOES HRDC WORK

- **It reduces water tension** which causes water to spread in smaller droplets that improve the effectiveness of watering.
- **It increases the wetting and penetration ability of water at a minimum of 100%.** Water is absorbed into surface dust and the roadbed rather than running off or laying in puddles.
- **Water evaporates more slowly** since it penetrates deeper into the roadbed. This means a greater amount of water getting in contact with dust particles.
- **It contains non-volatile materials** which attract both dust particles and water. These non-volatile materials remain to attract dust particles even when almost all of the water has evaporated.
- **HRDC has a residual effect:** it continuously improves the effectiveness of your watering program since its performance increases with every application.



APPLICATION

HRDC is normally diluted at the rate of 1 liter to 2.500-3.000 liters of water. To minimize foaming, the product should be added to the water tank just prior to being completely filled. In case of extremely hard-to-wet surfaces, you can increase the amount of HRDC to be applied. For example, some clay materials may require a dilution rate up to 1:1000.

BENEFITS

- **It saves you time, money and water.**
- **It speeds the water penetration into the roadbed.**
- **It increases the duration of watering and reduces the frequency of applications.**
- **It is biodegradable, non-combustible, non-corrosive, and non-carcinogenic.**
- **If used per manufacturer's instructions, it is an acceptable dust suppressant.**
- **It will not salt out or cause clogging.**
- **It is completely miscible with water in all proportions.**
- **It can be used with every type of water (hard, fresh or salt) and climatic condition.**

BEFORE APPLICATION



AFTER



FullService

fullservice-it.com

Via Enzo Ferrari, 6 - 35046 "Saletto" Borgo Veneto (PD) Italy
T +39 0429 841181 - F +39 0429 841182 - info@fullservice-it.com

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