



# ‘Dust management is too expensive!’



## Wuvio blows that theory out of the water

*EcoCrust white on coal stockpiles.*

Wuvio Chemicals offers a range of products to combat dust, which are widely used in the waste and recycling industry, by energy producers and by mining and dry bulk companies. Wuvio believes dust suppression should be easy and can be done with a smaller ecological footprint. It is widely believed that fighting dust in an industrial environment is expensive, difficult and typically has an impact on operations — Wuvio’s daily mission is to prove this is not true.

All heavy industrial sites are constantly under the microscope. This is a fact we all know to be true. However, the surroundings and neighbours at any bulk handling site, as well as local

government, can have a major influence on whether the operator’s licence continues.

Looking back at the title of the article ‘Dust management is too expensive’. What if that weren’t the case? A fundamental flaw is that many of us try to use a sledgehammer approach to resolve dust-containment issues — often using an over-scaled and usually costly solution.

But let’s assume the budget was approved and the operator and the contractor can now start the construction works. It will take a few weeks or maybe months before its completed and, most importantly, there is no guarantee it will actually work — it



*Application of EcoCrust with spraycannon.*



*EcoCrust end result on coal stockpile.*



*Application of EcoCrust with Wuvio Spraycannon.*

is, after all, impossible to test a 20m-high wall, large ventilation system or enclosure until it is in place.

Keep the above in mind and let's look at how smart this approach really is based on an example out of our daily life. Let's say your heater at home is broken, it's not heating up your house anymore and your spouse and family are complaining about the cold. What would you do?

- a) Go out and purchase better isolated windows;
- b) Go out and buy a mobile heater which uses lots of power; or
- c) Install a new heater or get the one you have repaired.

Well most of us would choose c), right? We look at the source of the problem and fix it — just because it's the logical choice and probably the cheapest.

The same goes for dust management in any industrial environment. To truly solve a dust problem you need to approach and attack it at the source, typically the processing and movement of the dry material. Applying additives is almost like non-invasive surgery; the procedure is quick, and has little impact on the patient. Similarly, calling the heater repair guy is less invasive than calling in window installers. In fact, thinking about it, it is even better than non-invasive surgery, because you can actually test the system before you buy it. It sounds almost too good to be true.

Wuvio offers a range of solutions for dust control, and none of these require operators to shut down operations before installation. There is no need to build large walls or enclosures and, on top of this, they allow for a reduction in water usage of up to 90%.

#### PRODUCTS AND SOLUTIONS

Wuvio Freko-Crust and EcoCrust are additives that use

biodegradable agents that form a thin crust on dust emitting goods in storage, such as: coal, petcoke, iron ore, sand, waste, phosphonate ore, woodchips. The crust lasts anywhere from one to 90 days, and is unaffected by harsh weather conditions.

Wuvio Freko-Foam is sprayed on the materials (for example on the conveyer belt, screens and/or transfer points belt), the foam will make the dust particles moist and sticky so they can coagulate with bigger particle sizes within the material flow. It prevents the dust from spreading and can be used on various materials including coal, biomass, wood and waste.

Freko-Humidifier is used in order to reduce the speed of the dust particles, so that they can no longer float around; it is necessary to make them heavier. This is achieved by adding Freko-Humidifier to the water that is sprayed, atomized or sprinkled. Adding a tension-active substance (specifically in the form of a 'dust' humidifier) is really the only solution to make dust absorb moisture.

#### EQUIPMENT

Wuvio's focus is to provide a fully integrated solution which is built rugged enough to withstand the harsh environments. The key is to have the equipment work for its clients, so typically its spraying solutions are integrated with system automation to work in conjunction with the production line.

#### ABOUT WUVIO

Wuvio is a centre of expertise for all industrial dust issues. As a company, it truly understands that large industry is constantly under the microscope, either from the direct neighbours or legislators.

From its offices in the Netherlands, China and Thailand, Wuvio

works with its clients worldwide to enable a dust-free environment — whether in the workplace, place of business or residence.

It uses innovative proprietary additives, developed in-house, to combat dust and constantly improve its solutions. Wuvio maintains full control on all aspects of product lifecycles, production, logistics and enable ease of use by constant field testing and customer trials.



*Application of Freko-Humidifier integrated in customer's installation*