

# ECOROAD<sup>®</sup>

## DUST SUPPRESSION AND ROAD STABILIZATION



*Quarries and construction sites*



*Depots*



*Landing areas*



*Landfills and aggregate deposits*

Unpaved roads are natural breeding grounds for unstable surfaces and unwanted dust. At quarries, mines and other areas where paving is not the curative method of choice, Ecoroad delivers the needed stability and dust inhibition cost-effectively without harming the environment — it is a completely eco-friendly product that does not corrode the surfaces.

Ecoroad is a naturally occurring product that creates hard-packed dust-free roads by binding road surface particles together so that dust cannot escape into the air.

The firmer, more stable, dust-free road surface resulting from treatment with Ecoroad reduces the need for frequent road repair. The surface toughness resists the tendency of dirt and gravel roads to form wash board ribbing and, therefore, requires less frequent or no ongoing grading.

Ecoroad-treated unpaved roads are safer than untreated roads, on which visibility-impeding dust clouds are inevitability.

### Benefits

- **Creates a skid-resistant surface**
- **Improves visibility on dirt roads**
- **Stabilizes surfaces against potholes and wash boarding**
- **A low-cost, environmentally sound alternative to salt-based calcium chloride and magnesium chloride products**
- **Applies easily with any water truck after being mixed with water**
- **Is derived from abundant and renewable resources**
- **Biodegradable and non-corrosive**
- **Freeze-thaw stable**

## Solutions

It is recommended to apply Ecoroad directly onto the surfaces to **suppress and control dust**. It has to be sprayed with a tank equipped with a low pressure pump and a spray bar with appropriate nozzles. Nozzles are important because they guarantee an even application of the product diluted with water.

Ecoroad can be used to suppress dust on: coal and minerals deposits; construction sites roads; roads in quarries and landfills; unpaved roads; parking lots; photovoltaic installations; golf courses; and potentially all areas in which dust creates problems.

If **soil stabilization and erosion control** is required, it is recommended to pre-treat the surfaces with water and then apply Ecoroad with a tank equipped with a low pressure pump and a spray bar with appropriate nozzles. Nozzles are important because they guarantee an even application of the product diluted with water.

At the end of the spray-application, it is recommended to compact the treated surface with an appropriate roller that will improve the performance.

For protection against wind erosion, the minimum recommended thickness of the treated surface layer is 3-5mm and for protection against wind erosion and dynamic loads, 10-15mm.

Ecoroad can be used for cycle pedestrian lanes and drive roads stabilization. The easiest application method is using a milling cutter.

### **Correct Application phases:**

- \* Mill the surface following the recommended working depth in order to get fine material.
- \* Apply Ecoroad with a tank equipped with a low pressure pump and a spray bar with appropriate nozzles. Nozzles are important because they guarantee an even application of the product diluted with water.
- \* Mix the treated material with the milling cutter in order to achieve the optimum moisture content.
- \* Compact with an adequate roller.

### **Recommended application rates:**

Mix-in application: 4-5% of the aggregate weight.

Spray-on application: 1,5 to 2 liters per square meter.



Residential areas



Treated surface - detail

## **APPLICATION PHASES FOR DUST SUPPRESSION**



Please get in touch with our offices to get further information on application methods, correct application rates and any other information. You will be asked to fill in a Design Criteria Chart which will allow us to recommend you the most appropriate application method. Ecoroad is a concentrated liquid (1050liter tank).