

CASE STUDY



REDUCED DUST AND ASBESTOS LEVELS

DUSTGRIP® TURBO

CHALLENGES

A U.S. based construction company that handles general civil engineering work was dealing with a site that had asbestos fibers in the roadway. Elevated dust levels were synonymous with elevated levels of airborne asbestos, which created a hazard for workers as well as a potential violation for the operation.

Due to the amount of dust generated by the construction project, the company received a violation for high asbestos levels.

THE SOLUTION

To help reduce the dust, and therefore the asbestos levels, Quaker Chemical Corporation (“Quaker”) proposed the construction company use a dust suppressant to make their watering program more effective, and eliminate chances of a violation. Since the company wanted to maintain the same watering program, Quaker recommended DUSTGRIP® TURBO, which without additional equipment could be added to the water to make it more effective by:

- » Reducing the surface tension of the water to increase the penetration into the roadway, thereby making the water last longer to treat the dust
- » Achieving greater subsoil moisture resulting in less runoff and evaporation of the water

To apply the dust suppressant, the construction company used their normal 4,000 gal. water truck and added one 5 gal. pail of DUSTGRIP® TURBO.

The result was a reduction in dust and asbestos exposure to workers and the environment, as well as elimination of violations for the remainder of the project

THE PRODUCT

DUSTGRIP® TURBO is a water-based, dust suppression concentrate designed for multiple applications including mine haul roads, stockpiles and longwall mining. Its proprietary blend of wetting agents is designed to accelerate water penetration in areas where dust is a hazard. When used according to instructions, DUSTGRIP® TURBO reduces the total water volume consumed for dust suppression purposes. Repeated applications have a cumulative effect, maintaining subsoil moisture content for long periods. DUSTGRIP® TURBO dust suppressant has been formulated to lower water surface tension, allowing it to penetrate and effectively knock down dust particles.

THE EXPERTISE

Quaker Chemical has developed an innovative and effective system to provide dust control solutions. Dust is not only a health risk for workers, but its suppression is a continuous and costly activity for

companies. Quaker's dust suppression product line is an effective means for the mining industry to manage resources (water) and lessen health risks and environmental concerns (dust). Quaker DUSTGRIP® dust suppressants offer effective means of managing resources and environmental concerns as well as the following solutions:

- » Effective dust control - improvements to health and safety by increasing visibility and improving air quality
- » Maintains subsoil moisture - unlike water, the products have a cumulative effect thereby, reducing water consumption
- » Reduced costs - labor and equipment
- » Health, Environment and Safety - products are fully biodegradable with no effect on the environment
- » Ability to use with existing spray equipment - do not require post application rinsing of equipment
- » Non - corrosive - will not corrode rail cars, conveyors or other equipment