

# CASE STUDY

## Surface Copper Mine : Reduces Water Usage Saving \$20,000

DUSTGRIP® SUPER TAC

### The Challenge

A large surface copper mine located in Chile was looking for a dust suppressant that would reduce the frequency of road treatments, as well as the amount of fine dust generated due to:

- An extremely dry climate and low humidity
- Track back/ blow back from large equipment continuously operating on the untreated haul roads

At the mine's locations, water is expensive and scarce, making it difficult to continually water the roads.

### The Solution

To help reduce the dust generated Quaker Houghton recommended the surface copper mine add, DUSTGRIP® SUPER TAC, a dust suppressant that binds the road together while also penetrating the surface to maintain subsoil moisture content, to their operation. The customer trialed DUSTGRIP® SUPER TAC on their haul roads at a 25% concentration at ½ gallon per square yard.

### The Product

DUSTGRIP® SUPER TAC is an easy-to-use dust management tool, which provides durable control and suppression of dust caused by wind, vehicle and heavy equipment traffic. This product is safe and easy to use, with no special equipment required. Its unique properties effectively control and suppress fugitive dust emissions in areas such as haul/unpaved roads, construction sites and quarries. Other areas where dust may be a problem include recreational areas with unpaved parking lots and roadways. DUSTGRIP® SUPER TAC is well suited for dry to moderately rainy climates. The formula has the ability to retain moisture and re-hydrolize after initial application.

### The Benefits

- Since the first treatment, the surface mine has not had to water the roadway for over 6 weeks saving the operation over \$20,000 (water trucks are estimated to be >\$500/day), as well as reducing water usage

Additionally, the mine was using a salt (chloride) based product.

- DUSTGRIP® SUPER TAC has reduced environmental impact, and has been less corrosive to the vehicles traveling on the haul road



Prior to DUSTGRIP® SUPER TAC



DUSTGRIP® SUPER TAC Application



6 Weeks After Application