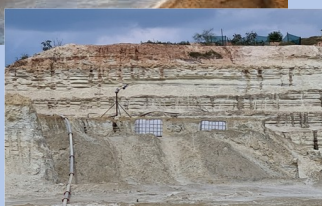


Nano-BlockTM – Site Reference: Stibium

Mopani Mine, a Stibium operation in Gravelotte, South Africa, found it necessary to review their **Dust Management** operations at the mine and tested the **Nano-Block** Dust Suppressant in 2020. The mine had, up to that time, been using various petroleum and synthetic plastic-based substances and were not getting the results they wanted.



With the challenging environmental conditions over the past three years, Stibium had experienced increased fugitive dust from their active tailings dams and their service roads



“Since we started using **Nano-Block**, a natural nano-polymer, our experience has been excellent.”

“The application of this enviro-friendly product effectively reduced the dust generated from these sources to meet our expectations.” **Pierre Labuschagne, Occupational Hygienist.**

“During heavy wind conditions, no visible dust was observed from our tailings facilities in contrast with prior months. The fallout dust measured from our dust buckets has shown a significant reduction.”

“Our experience to date is - the use of **Nano-Block** significantly lowered our costs compared to other products we had used. Only a 1% application is required versus a 4% in general for the products we used previously.

Our application frequency reduced significantly due to the effectiveness of the product. We used to spray our roads twice a day, now with **Nano-Block** we spray twice a week and our water usage in Dust Abatement operations has reduced significantly. During long rainy periods when no **Nano-Block** had been applied, Stibium has found that the applied **Nano-Block** on their service roads around the mine has resulted in much higher resilience of the road surface in between applications and during rain.”

“Overall, we have estimated our total cost per square metre of Dust Abatement operations has decreased by more than seventy five percent compared to the use of other substances. If one takes into account maintenance of our vehicles and equipment operating at the mine, the savings have been even greater.”

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