

AGGREGATES & MINING

Enviropeel is well-known for the success it has achieved in bearing protection for resource industries such as mining, limestone extraction and aggregate production, with significantly reduced replacement, maintenance and downtime costs on operational and stored equipment. Great savings, combined with fast turnaround from highly mobile on-site application units, make Enviropeel an obvious choice for companies looking to make their facilities more cost-effective.

Bearings on conveyors carrying coal, ore and aggregates are often subject to high levels of accumulated debris. Dirt breaks down seals and contaminates grease causing increased wear, overheating and premature failure. Clearing the debris using water-jetting can add to the damage and many bearings in such situations may only last weeks before requiring replacement.

Enviropeel prevents such failures through encapsulation of the bearing's exterior components, isolating them within a tough, water and contamination-proof barrier coating that can be applied to bearings of any size or shape. Even the rotating shaft is coated, with built-in inhibiting oils allowing it to rotate inside a protective barrier that prevents contaminating debris from travelling along the shaft and into the bearing seals.



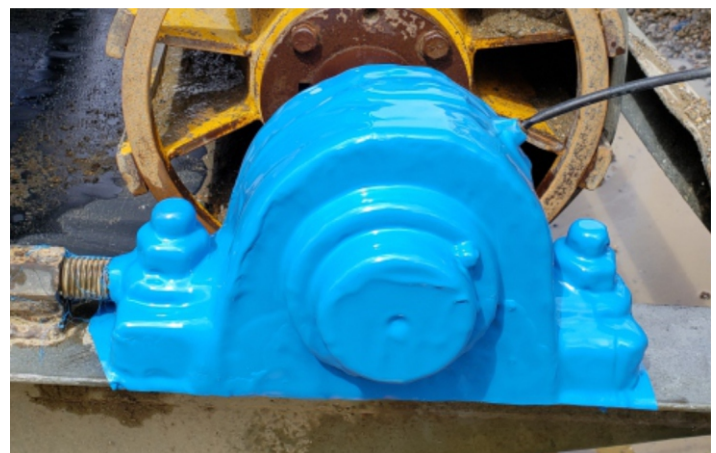
KEY BENEFITS

Increase bearing life by 500% +

Prevent contamination & corrosion

Reduce maintenance costs by 85%

Huge reduction in downtime



FAST TURNAROUND **Coal Mine, Kentucky**

9 inch (22 cm) tail pulley bearings, located underground at the base of a belt taking coal to the surface, had recently been replaced due to contamination and corrosion from coal dust and water used to reduce coal dust as well as for clean-up purposes. Within an hour of the belt shutdown and lockout, the bearings were cleaned and the Enviropeel applied. The belt was able to restart only 15 minutes after the application finished.



TOUGH CONDITIONS **Sand & Gravel Aggregate Plant, Indiana**

Protected multiple pulley bearings over three separate visits and inspected previous applications at 6 month and 1 year intervals that showed no sign of ingress despite being covered in dirt. Where high levels of abrasion and water pressure are experienced at this and other sites, the Enviropeel system used may include an outer 'Rubberloc' urethane cover.



COST SAVING **Aggregate Limestone Quarry, Indiana**

24 new bearings needed protection with Enviropeel due to constant ingress from limestone dust and water. Reclaimed water is used to prevent limestone build-up around the tail pulley, washing grease out of bearings and forcing contamination into the system, resulting in premature failure. Despite automatic lubrication systems, life expectancy for many bearings was only 2 to 6 months. Downtime costs are over \$5,000 an hour.

After the first year of Enviropeel protection, all coated bearings were still in operation with no sign of failure. The plant manager estimated a saving of over \$20,000 in bearing costs alone in the first year. This does not take into account at least \$150,000 downtime savings, replacement labor and lubrication savings.

TYPICAL SAFETY AND COST SAVING DATA

- Average bearing life prior to Enviropeel **9 months**
- Bearing life with Enviropeel applied **4+ years**
- Resulting component life increase **500+%**
- Resulting saving in change out costs **500+%**
- Reduction in maintenance costs **95%**
- Cost of Enviropeel compared to changeout **5-7%**
- Reduction in risk exposure **490+%**



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