



TAILINGS

Stronger Tailings Control. Safer Sites. Better Compliance.

Dust suppression and stabilization solutions engineered for tailings storage facilities.

Why Tailings Matter

Tailings storage facilities can be one of the largest sources of fugitive dust at a mine site. Left untreated, these fine particles travel beyond property lines, creating health, environmental, and regulatory risks.

When dust escapes from tailings, visibility drops, worker safety declines, and hazardous particles can reach surrounding communities. Compliance risks also increase with PM_{10} and $PM_{2.5}$ limits. EnviroTech delivers solutions designed for the unique challenges of tailings: extremely fine particles, variable moisture, and wide, wind-exposed surfaces.

MSHA Final Rule: Respirable Crystalline Silica

In 2024, MSHA established a uniform exposure limit of $50 \mu g/m^3$ (PEL) with an action level of $25 \mu g/m^3$. EnviroTech's solutions help mine operators control dust at its source, reducing airborne particulate levels and supporting compliance while improving operational efficiency.

Sustainability & ESG Benefits

EnviroTech's tailings solutions go beyond dust suppression. You can conserve resources, protect communities, and support your Environmental, Social, and Governance (ESG) commitments. Our approach minimizes worker exposure to respirable crystalline silica, reduces water dependence, lowers emissions through less equipment usage, and incorporates environmentally responsible options such as bio-based and Ultra-Low Chloride products.



TOTAL MINING SOLUTIONS TAILINGS

FEATURED SOLUTIONS

CHLORIDES

ROADSAVER, ROADSaver-C

Proven Magnesium and Calcium Chloride solutions bind moisture into tailings surfaces, keeping fine particles in place even under arid, windy conditions.

- Field-tested performance across climates
- Lower cost per acre vs. alternatives
- Simple to apply with standard equipment

ENHANCED CHLORIDES

DURABLEND-M ROADSAVER -M

Chloride-polymer blends extend control, reduce total Chloride use, and cut reapplication frequency.

- Extended intervals between applications
- Reduced fuel use and equipment usage
- Improved resistance to rain and runoff

ULTRA-LOW CHLORIDES

X-HESION PRO

Bio-based binders deliver effective dust suppression while minimizing Chloride content.

- Ideal for sensitive environments or Chloride-restricted regions
- Renewable, biodegradable components
- Aligns with corporate sustainability goals

POLYMER & SYNTHETIC FLUID EMULSIONS

DURASYNTH EMULSION POLYMER EMULSIONS

High-performance sealants form durable, weather-resistant barriers on exposed tailings.

- Months-long performance with one application
- Resists wind and rain erosion
- Reduces costly rework and site disturbance

The Results

EnviroTech's solutions deliver safer and more stable tailings storage areas while reducing dust clouds that impact workers and nearby communities. Roads and surfaces maintain their integrity longer, minimizing rutting and potholes. Lower maintenance needs cut operating costs, and every application contributes to stronger ESG alignment and greater regulatory confidence.

How EnviroTech Helps You Stay Compliant:

Our dust control solutions tackle the problem at its source, keeping fine particles bound in the road surface and out of the air. By significantly reducing airborne dust, especially PM₁₀ and PM_{2.5}, our products help mine operators:

- Maintain compliance with the new PEL and action level.
- Reduce the need for costly shutdowns and rework.
- Protect worker health and extend road life.

