



Mix-D – An Efficient Chemical Solution to Control Dust Emissions

ISSUES



- Low Visibility
- Transportation Delays
- Frequent Water Spraying
- High Water & Fuel Consumption
- Poor Air Quality
- Worker Health Complaints
- Environmental Compliance Challenges

Fugitive Dust

- 70-80% Dust Emission Reduction
- Reduced Spray Frequency
- Improved Visibility & Safer Roads
- Lower Fuel & Water Costs
- Minimized Transport Disruptions
- Enhanced Worker Comfort
- Eco-Friendly & Non-Toxic Solution

“MIX-D”

SOLUTION



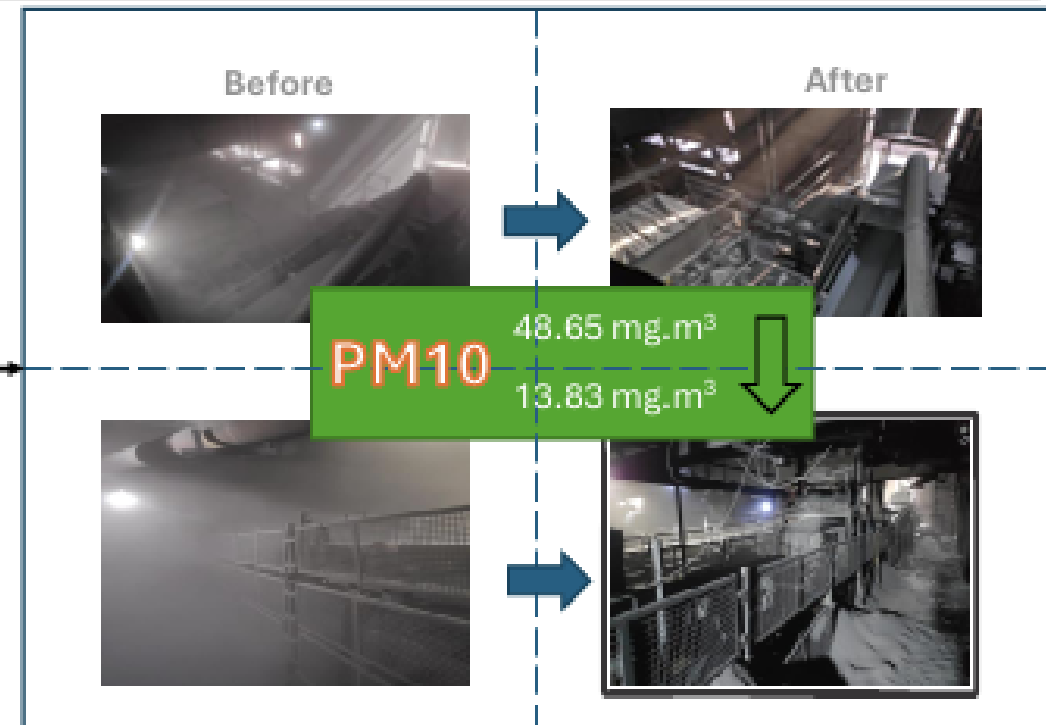
Case Study 1: Fugitive Dust Emission Control at a Mineral Processing Site

Challenge:

- Heavy fugitive **dust emissions** in crusher and conveyor zones
- **Health hazards** for workers
- **Reduced visibility** during operations
- Frequent non-compliance with **environmental norms**

Solution:

- ☐ Application of **Mix-D** dust suppression aid at critical dust-prone areas



Outcome:

- ✓ **70% reduction** in fugitive dust emissions
- ✓ Significant improvement in **air quality and visibility**
- ✓ Better compliance with **pollution control** norms

Case Study 2:Haul Road Dust Suppression in iron ore Mining Zone

Challenge:

- Frequent dust generation after water spraying
- Required up to **20 sprays per shift**
- High **water usage** and **tanker operation costs**
- Delay in transportation due to **poor visibility**

Solution:

- Application of **Ecofriendly Mix-D** dust suppressant across haul roads
- Focused on high-traffic zones with frequent dumper movement



Outcome:

- ✓ Clear visibility maintained for up to **4 hours**
- ✓ Transportation cycle time improved by **15–20%**
- ✓ Lower tanker deployment – **Saving 60 -70% Fuel**

Case Study 3: Implementation in a Coal Mine – Haul Road Dust Control & Cost Savings

Problem Statement:

- **“Coal’s soft texture** results in frequent dust formation
- Visibility dropped within **30–40 minutes** of water spraying
- **Safety risks and complaints** from workforce and nearby communities

Solution Deployed:

- Mix-D**, a **green dust suppression aid**, was trialed across 12 km of haul roads and on the truck’s loads
- Spraying done using existing water tankers at **reduced frequency**
- Trial monitored over a **period of 4 weeks**

Cost Saving Outcomes:

Parameter	Before Mix-D	After Mix-D	Savings / Gains
Water spray frequency/day	45 (15/shift × 3 shifts)	9 (3/shift × 3 shifts)	80% reduction

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