DUST SHIELD™

1. DESCRIPTION

Dust Shield™ is a premium dust suppression and road stabilization solution designed for long-lasting control of airborne dust on unsealed roads and work sites. Its unique formulation combines hygroscopic magnesium technology with a proprietary polymer that improves surface wetting, spreading, and moisture retention.

2. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to slightly yellow liquid
Odour	None
Specific gravity	~1.08
Solubility	Fully miscible in water
Flammability	Non-combustible

3. MODE OF ACTION

- Hygroscopic effect draws and retains atmospheric moisture.
- Proprietary polymer enhances binding of fine particles.
- Moisture-locking system minimizes evaporation.
- Surface stabilization reduces erosion and improves compaction.

4. APPLICATION GUIDELINES

Initial Treatment	1.0–1.5 L/m2
Maintenance Treatment	0.4–0.8 L/m2 every 6–12 months
Conversion: 1 lineal metre @ 6m wide = 6 m2	
Initial	6–9 L/lineal m.
Maintenance	400-800 L/1000 L water.
Per 1000 L water: (cart dosing)	
Initial	1000–1500 L/1000 L water depending on passes.
Maintenance	400–800 L/1000 L water.

5. BENEFITS.

- Superior dust suppression for roads, mine sites, and quarries.
- Reduced maintenance costs through extended grading intervals.
- Safer work environments with improved visibility.
- Polymer-assisted binding and moisture retention technology.