

DUST SUPPRESSION · EROSION CONTROL · SOIL STABILIZER

Trans Seal I®

NON-TOXIC POLYVINYL EMULSION
55% SOLIDS · DRIES CLEAR
CHLORIDE-FREE DUST CONTROL

A BETTER DUST CONTROL SOLUTION

A non-toxic, water-based polyvinyl emulsion that binds treated surfaces into a durable crust — locking down PM₁₀ fugitive dust where salt-based suppressants fail.



Trans Seal I® in action


NON-TOXIC
ENVIRONMENTALLY SAFE

CHLORIDE-FREE
NO SALTS,
NO CORROSION

SUPER CONCENTRATED
EFFECTIVE AT
>40:1 DILUTION

SAVES WATER
CUTS COSTS

THE DILUTION ADVANTAGE · SPRAY PER GALLON

One gallon goes up to **10x farther** than typical polymer suppressants†

40–150 gal

TRANS SEAL I · SOIL · 1:40–1:150

11 gal

TRANS SEAL I · COAL TOPPING · 1:11

3–4 gal

TYPICAL POLYMER SUPPRESSANTS†

WHY TRANS SEAL

Trans Seal I® is a non-toxic, water-based polyvinyl emulsion that delivers long-term dust suppression and soil stabilization. When applied, it binds loose surface particles to form a durable crust that controls fugitive dust emissions, including fine PM₁₀ particulate, and reduces erosion. Its extended performance minimizes watering and maintenance requirements, helping conserve water, lower operating costs, and improve site safety.

Originally developed as a coal-car topper to stop coal-dust blowback from railcars in transit, it's equally proven on mine haul roads and stockpiles. Unlike salt-based suppressants (MgCl₂), it performs in low-humidity climates — and independent labs have verified it non-toxic, twice.*

- ✓ **Conserves Water**
Cuts routine watering cycles.
- ✓ **Improves Safety**
Visibility up; less flying gravel.
- ✓ **Works Where Salts Fail**
Reliable in low humidity.
- ✓ **Lowers Operating Cost**
Less blading & gravel loss.
- ✓ **Forms a Durable Crust**
Lasting surface stabilization.
- ✓ **Fights Erosion**
Armors soil against wind & rain.

WHERE IT WORKS

Mine Haul Roads & Coal-Car Topping · Rail & Open-Container Hauling · Unpaved Roads · Construction & Stockpiles · Demolition Sites · Military Training Areas · Dirt Tarmacs · Crop & Agricultural Sites · Recreation Areas · Solar Sites

HOW IT WORKS

Sprayed on diluted, Trans Seal dries from white to clear as it binds surface fines into a durable, water-resistant crust — locking down dust and armoring soil against heavy haul traffic, wind, and rain.

FIELD-PROVEN & SAFE

Black Thunder Mine coal-topper field test — 3–6" crust penetration, controlled dust plume in transit · **Non-toxic, verified twice:** EPA fish test, zero mortality (2002) & three-species tests at 20:1 — no toxicity found (2025)*

AT A GLANCE

Water-based polyvinyl emulsion · 55% solids · Crust 5/8"–1" thick · Min. use temp 57°F · ASTM D-4317-98 Type III


Made in USA
Assembled in Tennessee

DISTRIBUTOR & SITE INQUIRIES

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Request a Quote →



FLUIDTECHLLC.COM

PRIVILEGED & CONFIDENTIAL

Trans Seal I™ is a trademark of Fluid Tech LLC. *Acute toxicity: EPA-protocol fish test, zero mortality tested undiluted (Aquatic Consulting & Testing, 2002); independent three-species tests at 20:1 field dilution (2025; fathead minnow, Daphnia magna, redworm) — no toxicity found. †Ratios shown product : water. Trans Seal rates per Fluid Tech dilution tables (2023) & Black Thunder Mine field test; typical polymer-suppressant dilutions per U.S. Army ERDC evaluation TPD0600002. Rates vary by site — request a recommendation.