

Why a Binder?

↓ Dust, ↑ Surface Strength

FYI

The bottom line

Dust suppressants that contain binders add more strength to treated soil and gravel surfaces – and last longer – than those that do not.

The back story: When you see cars, trucks or planes kicking up clouds of dust, that dust is composed of valuable and needed material called fines. Escaping fines are not good for roads, gravel runways, or those traversing them.

It is the cumulative stress borne by a surface over time that diminishes its ability to keep fines from dislodging and escaping as fugitive dust. The more well graded the particle size distribution in soil or gravel and the better its relative compaction, the stronger it will be and the longer it will be able to keep fines from dislodging.

Preserving fines

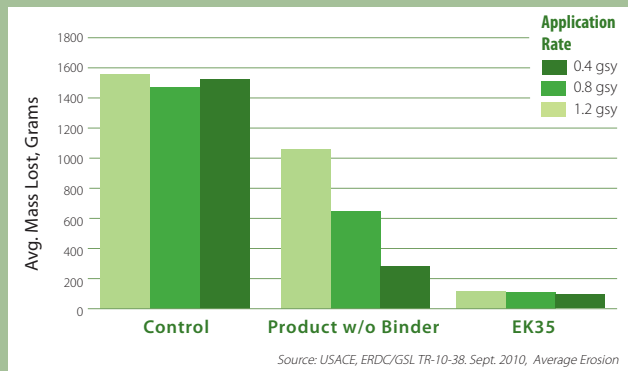
If it is weakness and poor compaction that lead to surface destabilization and unwanted dust from gravel or unpaved roads and runways, then it follows that adding strength and facilitating compaction will lengthen a surface's life cycle.

That is the beauty and distinguishing characteristic of dust suppressants that have binders.

Binders strengthen roads and render them better able to retain fines by preventing them from coming loose as dust or washing out of the surface. In addition, treatment with products containing binders last longer, increase a road's resistance to weather, and require substantially less product to get the job done than those that do not.

Fines Preservation

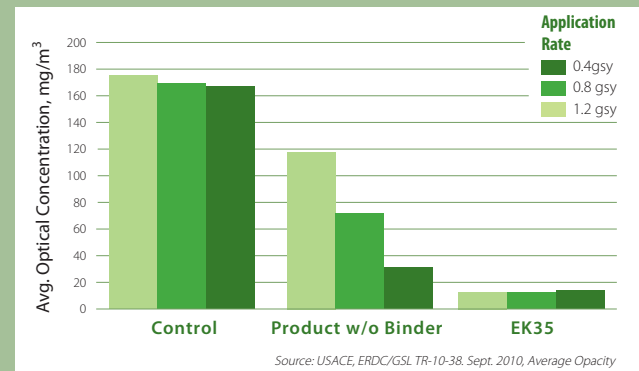
24X Greater In Product With Binder



Dramatic difference in effectiveness: Regardless of application rate with EK35, a product with a binder, there was barely any erosion. Nearly 100% of the fines were kept in the surface.

Opacity (Dust Level)

5X More Dust Control In Product With Binder



Proven: EK35, a product with a binder, delivered five times more dust control, nearly 100% dust control efficiency.

Only Midwest's EnviroKleen®, EK35®, Arena Rx® and Diamond Doctor® dust suppressants contain binders for longer-lasting performance, enhanced surface strength, and reduced life-cycle costs. Other products in the market are economy-priced binder-less dust suppressants that are used for short-term dust control.

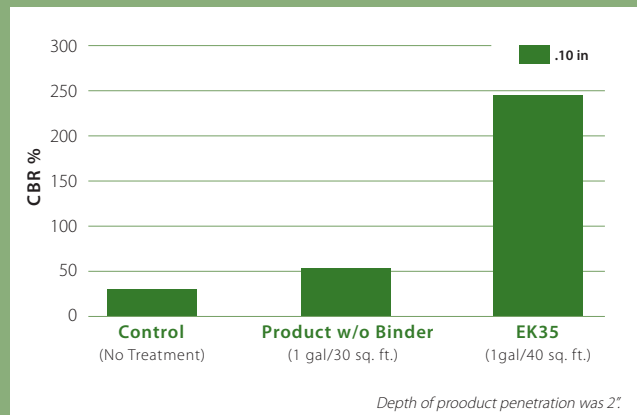


Put a Product to the Test

You can test for an increase in strength using any of these standard methods:

- ASTM D3080, "Direct Shear Test of Soils Under Consolidated Drained Conditions"
- ASTM D1883, "CBR (California Bearing Ratio) of Laboratory-Compacted Soils"

CBR Strength Gain



Less product, more strength: It took one gallon of a dust suppressant with a binder (Midwest's EK35®) per 40 square feet to increase CBR by nearly 250%. One gallon of the product without a binder covered only 30 square feet and produced only a 49% increase in CBR.

It's easy to be green

As tough as Midwest's products are at preventing and controlling dust, they have been certified safe for human, animal and plant life by the EPA's Environmental Technology Verification program. With chemists in our lab and experts on our customers' worksites, Midwest has the home-grown ability to manufacture products that will not harm the environment and, in many instances, will help it. Our chemists think green from source materials to formulation and from production to application.

About Midwest

Midwest is the world leader in environmentally sound, dust-control technology for every application where fugitive dust is a problem. We bring our customers more solutions, documentation and support than any other manufacturer. On a daily basis, we challenge ourselves to become even more accessible problem-solvers so we can set a new industry standard for proactive and responsive service. Pushing the envelope is part of our corporate DNA, and we strive, always, to develop cutting-edge processes, products and services; stay on top of the learning curve, and educate our customers for our mutual success.

Good 4 Dirt

Jim Goodyear - North American Distributor
851 West County Road 70, Fort Collins, CO 80524

Phone: Toll Free 877-592-2468

E-mail: ArenaRx@gmail.com

website: Good4Dirt.com

Midwest Industrial Supply, Inc.
1101 3rd Street Southeast
Canton, Ohio 44707

www.midwestind.com

D256 © 2011 Midwest Industrial Supply, Inc.

Tel 330.456.3121
Fax 330.456.3247
Toll Free 1.800.321.0699

