

# Natural Paving - The Midwest Road-Bldr<sup>®</sup> System

## Design Strong Earth-Friendly Secondary Roads

Potholes, ruts, uneven surfaces, dust. These conditions, often found on unpaved roads, are hard on vehicles and people and can also be harsh on the environment.

Midwest's Road-Bldr<sup>®</sup> construction and maintenance Process creates road surfaces that perform as well as conventional asphalt at a lower cost-per-mile. We use in-place soils in conjunction with our green products to stabilize a roadway's sub-base and then provide a chip-sealed running surface without relying on any asphaltic products. The result is a natural looking, dust-free roadway.

The Eco-Pave™ family of products, the foundation of Midwest's Road-Bldr system, is formulated to be as gentle on the environment as it is effective on the roadway. Like all Midwest products and services, Eco-Pave is reliably consistent and consistently reliable month to month, season to season, and year to year.

### The Road-Bldr Program at a glance

- Improves long-term performance of un-surfaced and surfaced roads
- Uses native in-place soils wherever possible
- Increases structural integrity and CBR
- Creates or restores a smooth, skid-resistant surface
- Offers a cost-effective alternative to asphalt

*The Road-Bldr system optimizes unpaved secondary roads, rural dirt and gravel roads, military roads and training areas, and forest and park roads.*



## Road-Bldr, a superior process

Road-Bldr is a single or two-part process that dramatically improves secondary roadways via stabilization alone or stabilization followed by a chip-seal surface treatment.

**Stabilization.** Midwest blends Eco-Pave Base, its proprietary polymer-enhanced, resin-based organic emulsion, into the existing base of native soils, gravel roads, or recycled roadway surface materials to create a superior structure that maximizes potential road strength and extends the useful life of a roadbed. The process eliminates the need to import costly base or aggregate materials to build a sub-base for subsequent paving or chip sealing.

Midwest's stabilization process will:

- Increase loading capacity (CBR)
- Create a barrier to reduce harmful moisture penetration
- Deliver a stronger, longer-lasting road surface at a lower cost than conventional road design

**Chip sealing.** For those who desire a chip-sealed road surface, Eco-Pave Chip – a powerful binder covered with an aggregate – delivers a natural, warm, visually-pleasing running surface.

Midwest's chip-sealing process:

- Results in surfaces with excellent skid resistance
- Creates or restores a smooth running surface on newly-built or deteriorated roadways
- Can be installed over a wider range of temperatures compared to asphalt chip

Conventional chip seal binders are made of liquid asphalt, which must be heated during application and turns into a black heat-absorbing road surface. The necessary surface sweeping results in the loss of up to 20 percent of the chips installed. The Eco-Pave-based Road-Bldr system, which uses no asphaltic products and requires no heating, creates a superior running surface, and requires no post-installation sweeping.

*The Road-Bldr system delivers stronger, longer-lasting roads at lower costs than conventional road designs without taxing the environment.*



## Road-Bldr Compared to Other Surfacing Methods

Criteria	Road-Bldr	Conventional Chip Seal	Conventional Asphalt	Aggregate Sub-Base
Natural green products	•			•
Utilizes in-place soils	•			
Increases CBR and loading strength	•		•	•
Superior traction	•	•		
Heat reflective	•			N/A
Installation below 50° F	•			•
Will not harm vegetation	•			•
Does not require washed aggregate	•			N/A
Does not require post-installation sweeping	•		•	N/A
Creates smooth running surface	•	•	•	
Creates dust-free surface	•	•	•	

**An easy choice:**  
*Make an objective comparison between Midwest's EcoPave and conventional asphalt approaches, and the benefits of Road-Bldr will become clear.*

## Green is Midwest's Primary Color

With chemists in our lab and experts at 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. The Road-Bldr system's stabilization and dust-elimination process:

- Produces lighter surfaces that do not absorb heat
- Uses materials that are non-hazardous, non-flammable, non-corrosive, and non-toxic
- Employs natural products harvested on a sustainable basis
- Will not harm vegetation or wildlife



### **If the shoe doesn't fit . . .**

One size fits all does not always make for a good fit; unique problems require unique solutions. Midwest is a particle-control pioneer, not a me-too company. Our product development begins with a challenge and ends when we produce a solution that proves its worth in the field. Off the shelf is fine when it works, but when it does not, Midwest has the capability and tenacity to customize a formula for your specific needs.



### **More reasons to choose Midwest**

Midwest is the word leader in environmentally sound dust control, erosion control, and soil stabilization technology. 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.

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