



A Buyer's Guide to Road Stabilization & Building Methods

How to select a cost-effective alternative to
traditional approaches and products

INTRODUCTION

By leveraging Midwest's patented road stabilization and building technologies, you can create stronger surfaces and extend the life of your roads.

There are several different approaches you can take to building or strengthening an unpaved road, each with its own advantages. But regardless of which method is best for your road or pathway, there's a road stabilization and building solution from Midwest Industrial Supply, Inc. that employs it.

All of our solutions are designed to yield lower construction and maintenance costs, reduced moisture penetration, increased road longevity, and increased load-bearing strength (CBR).

One of the biggest advantages of our solutions for road stabilization, building, and maintenance is that they all provide a stable, smooth, dust-free running surface for any kind of road, and can reduce or eliminate the need for expensive road aggregate. Midwest's patented technologies utilize the road materials that are already in-place, making it far less likely that you'll have to haul in new aggregate to supplement the existing road bed.

There are many reasons why you might opt for a stabilization or building solution for your unpaved road, rather than simply paving over your existing surface with asphalt, concrete, or lyme. The first is aesthetics, as some townships and counties place a high premium on maintaining the natural, pastoral look and feel of their roadways and pathways. The second is cost, because a road built using Midwest's patented technology usually costs 40-50% less than a road constructed using traditional methods.

The third reason you might choose road stabilization and building solutions is that they can be highly effective in locations where aggregate materials simply aren't available. Many rural communities lack access to both road aggregate and asphalt, but Midwest will build or strengthen roads for any client, regardless of their location. Finally, you might choose our solutions because they are engineered with natural materials and are non-toxic, non-corrosive, non-flammable, and non-water soluble.

The best solution for your road or pathway will depend on its typical traffic volume, climate, soil composition, and numerous other factors, and you shouldn't choose an approach before receiving a free assessment of your road from a Midwest technician. But the list below will give you a good sense of your options when it comes to unpaved road stabilization and building.

1. TOPICAL WEAR COURSE TREATMENTS



If your road is surfaced, you'll likely want to ensure that its wear course gets running treatments in order to preserve its compressive strength. Midwest's family of road stabilization and building solutions are formulated to bond the aggregate that forms the top layer of your road to produce a superior running surface that offers excellent skid resistance.

Our surface treatments are also all natural products, making them an environmentally friendly alternative to asphalt and oils.



2. STABILIZED SUBGRADES

Before a chip seal or paved surface running course can be installed, the subgrade will first need to be stabilized. If an unstable subgrade is paved over, the pavement will quickly break up and cause more problems in the future. Any road that supports moderate to heavy traffic should likely receive treatments of its subgrades.

Our patented products and technologies are designed specifically to stabilize the in-place sub-base soils, and can be applied merely 4-6 inches below the surface rather than the 8-12 inches that must be replaced using traditional methods. Our process can therefore reduce the amount of aggregate used (which would have to be hauled in from off-site, often at great expense), or even eliminate the need for it altogether.

Our subgrade stabilization approach maximizes road bed potential, increases load bearing capacity (CBR), improves structural integrity, and delivers a stronger, longer-lasting road surface, all at a lower cost than conventional approaches to road design.

3. FULL-DEPTH RECLAMATION



In some cases, a road has deteriorated to the point that a full-depth reclamation is required. If this is the case with your road, Midwest offers stabilization solutions that are less invasive and costly than traditional methods. And in doing so, we can increase the California Bearing Ratio (CBR) of your road by 80% in just 48 hours.

Once again, the benefit here is the ability to take in-place materials (in this case, previously asphalted roads that are highly distressed), grind them up with a reclaimer, and incorporate one of our high-tech products into the ground asphalt. From this mixture we will create a long-lasting, stabilized road with an asphalt-like surface. Whereas traditional road building solutions must be applied at least 12 inches beneath the road's surface, Midwest's patented products can achieve the same level of strength at only 6-8 inches deep. This means that you're able to use less product, and therefore, get more out of your road building budget.



4. PATHWAYS

If you're looking to stabilize a pedestrian pathway, Midwest offers a solution specially designed to create a strong surface without changing the unpaved path's appearance. Our approach utilizes a resin-enhanced polymer as an organic binding system for the aggregate chip sealed surface, which maintains the natural color of the chip and creates an environmentally friendly and appealing natural aesthetic.

Beyond the superior look produced by our family of patented products and technologies, our method can be employed over a wider range of temperatures than asphalt, yet still produces a smooth and skid-resistant running surface, reducing harmful moisture penetration.



GET IN TOUCH TO FIND THE RIGHT SOLUTION FOR YOUR ROADS

Are you interested in stabilizing or building an unpaved road using one of our patented products or technologies?

We at Midwest take a consultative approach to each project, working closely with you to develop a plan that will meet your road's specific needs. We consider your road's surrounding environment, climate, average traffic volume, and many other factors in order to recommend a solution that will get you a stronger, longer-lasting road surface.

To find out more about Midwest's road stabilization and building solutions, contact us today.

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