

OMEGA PAVING[®]

& ENVIRONMENTAL MANAGEMENT GROUP, LLC

OMEGA Paving & Environmental Management Group LLC

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Use cost-effective PAVE-ZYME (PZ-22X) to eliminate rough, rutted, and dangerous high maintenance dirt roads.



OMEGA Converts Unimproved Dirt Roads Into Highways For Progress



Dirt roads upgraded with PAVE-ZYME (PZ-22X) require no routine maintenance, eliminates the need to lay repeated loads of gravel to keep roads passable in wet weather, reduces dust, increases load bearing capacity, eliminates water infiltration, potholing and wash boarding.



*Roads Out of
Poverty....
Roads to
Progress*

Improving rural roads helps better the condition of the poor by improving access to essential services; schools; improving health and safety; and by facilitating the transport and sale of agricultural goods and overall economic progress.



PAVE-ZYME (PZ-22X) Road
with Chip Seal
Surface Coating

What is Pave-Zyme (PZ-22X)?

PAVE-ZYME (PZ-22X) is a unique natural enzyme product developed from organic plant material and is a superior asset in the bonding and compaction of soil and creation of permanent roadbeds and wear surfaces from insitu materials.

PAVE-ZYME (PZ-22X) stabilizes soils in the construction of roads, equipment yards, berms, airstrips, and seals ponds and lakes.

PAVE-ZYME (PZ-22X) is a totally natural “environmentally green” product. The enzyme process changes only the characteristics of the soil’s chemistry and causes a hard and permanent bond among the clay particles in the soil. Other materials in the aggregate are converted to a monolithic material that is vastly superior in strength, compaction and impermeability than conventionally treated roads and soils. Unlike chemical or petroleum based stabilizers and road sealers, nothing is left to harm the environment.

PAVE-ZYME (PZ-22X) offers a convenient and low cost method for improving soil workability, ease of compaction, increases in strength and durability, enabling lower construction costs, less maintenance and greater road performance. **PAVE-ZYME (PZ-22X)** also has properties which bind dust particles together to maintain a longer dust free environment.

PAVE-ZYME (PZ-22X) mixes easily with water at 1:500 gallons or greater dilution depending on the soil composition and moisture content at the point of application.

PAVE-ZYME (PZ-22X) is most economically used when routine soil tests are performed prior to application. Then the soil mix and solution properties can be determined to provide the best result.

PAVE-ZYME (PZ-22X) DIRT ROAD SOLUTIONS/APPLICATIONS

UNSEALED ROADS AND SHOULDER TREATMENT

PAVE-ZYME (PZ-22X) used on dirt roads creates a stronger, dense pavement. Unsealed road maintenance is significantly reduced; less dusting occurs and gravel lasts longer. These overall improvements save money and provide safety on unsealed roads.

SUB-GRADE TREATMENT

The effects of **PAVE-ZYME (PZ-22X)** are greatest on natural clay insitu material. When applied to natural sub-grades, increases in strength (CBR) of 30% to 40% have been achieved. Increases of 4% to 5% density for the same compactive efforts also. Such insitu improvement in soil strength reduces the need to haul gravel and other aggregate.

BASE TREATMENT

Where base-course material is not of high quality and has too high a PI (clay content) **PAVE-ZYME (PZ-22X)** may be used to increase the soils’ physical characteristics to a suitable standard without additional material.

LIME AND CEMENT STABILIZATION

PAVE-ZYME (PZ-22X) improves the action of lime and soil cement and when combined, reduces quantities of those additives by 50%.



OMEGA Paving's Black Belt Dirt & Deteriorated Road Solution

Black Belt counties throughout the South have the overwhelmingly disproportionate percentage of unimproved and deteriorated roads. Lack of fundamental transport infrastructure is a major inhibitor to economic growth.

Location of supplier plants for Alabama's growing automotive manufacturing industry is dependent on raw materials and finished goods arriving "just in time." The condition of the Black Belt's secondary and tertiary roads is inhospitable to the location of such plants, and the jobs that come with them.

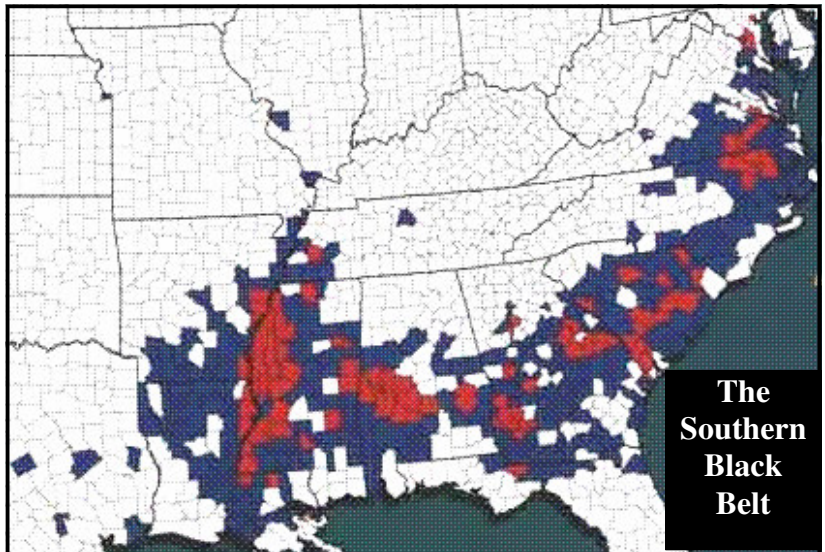
Public safety and the access of school, emergency and law enforcement vehicles are impacted by poor roads. Personal vehicles are routinely damaged by rutting and potholes, and wear out at a faster rate when driven on dirt roads.

Until recently, there has been no solution, but to wait until the county or state paves the dirt roads where so many Black Belt citizens reside. However:

Omega's PAVE-ZYME (PZ-22X), is a dirt road solution that is cost effective and can be obtained now, without the wait, using existing funds.

PAVE-ZYME (PZ-22X) works on the clay particles of the soil forming a bond that is impermeable to water and strengthens the road bed aggregate and fines to hardness comparable to concrete.

Once applied the change in the soil is permanent and will not erode. The costs and labor associated with routine grading and scattering of gravel is ended forever.



Dirt Road Problems Solved for Black Belt County Engineers and Commissioners

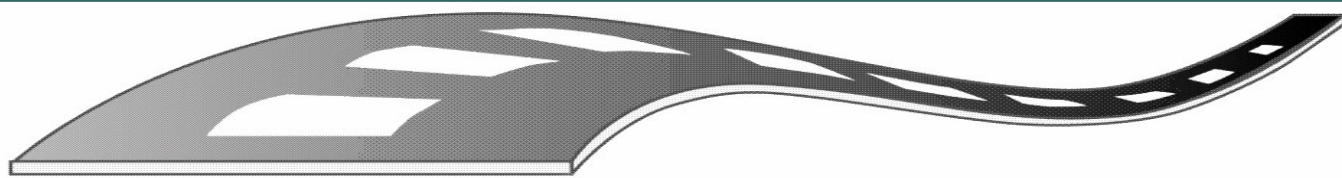
Roads constructed or upgraded with PAVE-ZYME (PZ-22X) provide a 30-40% savings over conventional asphalt roads while delivering a highly maintenance free permanent road that can be covered with asphalt at any future date.

Omega's turnkey road building solutions leverage existing dirt road maintenance expenses by a factor of 10-15 times their current annual allocation. We will take the savings from the use of PAVE-ZYME (PZ-22X) and do 2-3 times as many roads. Example:

If your current budget provides \$3 million annually we can leverage that \$3 million into \$30 Million and make a tremendous impact on the safety, and quality of life of the residents in your county.



PZ-22X can be applied with conventional excavation, graders, water trucks and rollers. However, both deteriorated asphalt and dirt roads can be efficiently recycled/rebuilt using existing material and combining PZ-22X in one process using the tandem recycling unit shown above. Approved by Alabama DOT.



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*“In our day, the most important symbol of getting out of poverty
was living on a paved road”*

*Ambassador Andrew Young introducing Omega’s “Roads out of Poverty” initiative
to representatives of the Jamaican government at an Atlanta assembly*

Product License and Manufacture

“PZ-22X” is the licensed private label of a trade secret protected product known as PZ-22X manufactured by Worldwide Enzymes. Omega has exclusive marketing and distribution rights to PZ-22X for the 50 states of the United States, the Caribbean and most nations in Africa.

“PZ-22X,” the name of the product represented by Omega, has obtained increasing acceptance and is being investigated as a rural roads solution by the Southern Rural Transportation Center of South Carolina State University. PZ-22X has been approved by the Alabama Department of Transportation for use on Alabama roads.

For More Information

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