

# OMEGA PAVING

## & CONSTRUCTION MANAGEMENT GROUP, LLC



*“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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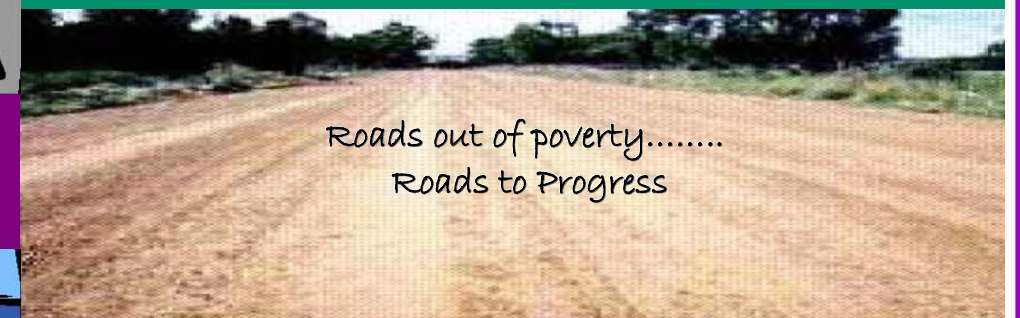
OMEGA converts unimproved dirt roads into highways for progress.



Paved rural roads better the condition of the poor by improving access to essential services - schools, hospitals, government, etc. and by facilitating the transport and sale of agricultural goods which both contribute to the overall economic progress.



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



Roads out of poverty.....  
Roads to Progress

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



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 making it a superior asset in the bonding and compaction of soil and the creation of permanent roadbeds and wear surfaces from insitu materials.

**PAVE-ZYME (PZ-22X)** stabilizes soils in the construction of roads, equipment yards, berms and 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 and ease of compaction. It increases 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

### 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. Increases in strength (CBR) of 30% to 40% have been achieved when applied to natural sub-grades with increases of 4% to 5% density for the same compactive efforts. 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%.

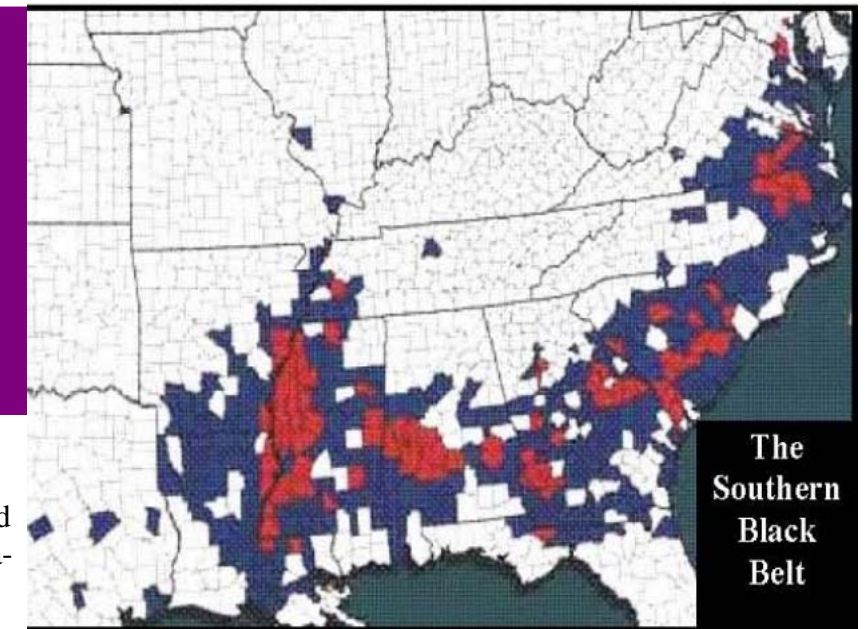


## OMEGA Paving’s Black Belt Dirt & Deteriorated Road Solution

Black Belt counties throughout the South have an 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, school access and 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 waiting, using existing funds.**

**PAVE-ZYME (PZ-22X)** works on the clay particles of the soil forming a bond that is impermeable to water while strengthening the road bed aggregate and finishing to a hardness comparable to concrete. Once applied the change in the soil is permanent and will not erode. The cost and labor associated with routine grading and scattering of gravel is ended forever.



The Southern Black Belt

## 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 turn-key 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 safety,**



**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.**