

Innovasoil Technologies: Leveraging Cutting-Edge Technology for Soil Stabilization in Construction

JACKSONVILLE, FL, UNITED STATES, January 20, 2025 /EINPresswire.com/ -- Innovasoil Technologies, a leader in advanced [soil stabilization](#), is proud to announce its collaboration with Oktibbeha County, Mississippi. This partnership aims to redefine road infrastructure through cutting-edge, sustainable solutions. This partnership highlights the transformative capabilities of Innovasoil's innovative MH72 technology.

A Leap Forward in Soil Stabilization

At the heart of this initiative is MH72, a proprietary soil stabilization technology developed through over 25 years of research and innovation. MH72 integrates multiple advanced chemical processes to enhance soil performance and durability.

Specific chemical reactions catalyze the breakdown of organic material, such as cellulose and lignin, reducing swelling and increasing soil density by creating a more compact and stable soil matrix. Biochemical compounds form an interlinked matrix that prevents cracking while maintaining flexibility. Molecular alterations replace weaker ions within the soil structure, enhancing particle compaction and water resistance. Additional chemical processes create robust water-repellent bonds, enhancing cohesion and ensuring long-term durability against environmental stressors.

Unlike non-traditional and traditional applications like lime and cement, which often create rigid matrices prone to shrinkage and cracking, MH72's unique combination of biochemical and molecular processes creates a flexible yet dense soil matrix. These advanced reactions allow for stress redistribution and eliminate the brittleness seen in conventional methods. This adaptability allows for the redistribution of stresses, minimizing void formation and preventing cracks under load or environmental changes. By avoiding the brittleness of traditional applications, MH72 ensures enhanced strength without compromising stability, delivering superior performance in dynamic and thermal stress environments.

The Advantages of MH72

Innovasoil's MH72 is a sustainable, cost-effective alternative to traditional soil stabilization methods like soil cement. MH72 minimizes environmental impact through biodegradable additives, significantly reducing the carbon footprint. Roads treated with MH72 demonstrate exceptional resistance to traffic loads and harsh environmental conditions, including freeze-thaw

cycles. The technology's rapid application and minimal maintenance requirements lead to substantial cost savings. By eliminating voids and cracks, MH72 ensures a stable, uniform road base that strengthens progressively over time.

Proven Success in Infrastructure Projects

With over 25 years of global field expertise, MH72 has a proven track record across diverse geographies, more recently in the United States. Notably, the Iowa Department of Transportation recognized its performance under severe freeze-thaw conditions, validating its reliability and cost-effectiveness.

A Partnership for Sustainable Progress

"We expect to deliver significant improvements in load-bearing capacity, reduce maintenance costs, and provide structurally sound roads for decades," said Matt Fenner, Co-Founder at Caplin Ventures. "Our advanced approach ensures roads are more durable, sustainable, and cost-effective than ever before."

Oktibbeha County Supervisor Orlando Trainer shared his optimism about the partnership: "By adopting Innovasoil's advanced technology, we're paving the way for long-term infrastructure improvements that will benefit our community by reducing maintenance costs, enhancing road durability, and providing a safer, more efficient transportation network to support future economic growth." This alliance will help pave the way to a much broader infrastructure and road rehabilitation initiative."

About Innovasoil Technologies

With over 25 years of expertise, Innovasoil Technologies specializes in soil stabilization and [pavement reinforcement](#). The company's solutions redefine durability and sustainability, setting new benchmarks for infrastructure resilience worldwide.

About Oktibbeha County

Home to Mississippi State University, Oktibbeha County is a dynamic hub of education, culture, and community. The county's proactive approach to infrastructure challenges underscores its commitment to fostering sustainable growth and enhancing quality of life.

For more information about Innovasoil, visit innovasoiltechnologies.com.

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