

MEDIA BACKGROUNDER

BIOSPAN TECHNOLOGIES PRODUCT OVERVIEW

ST. LOUIS, MO, March 3, 2025 - BioSpan Technologies is a leader in sustainable, high-performance solutions for the pavement preservation, energy, and environmental industries. BioSpan's products, which include eco-friendly asphalt and concrete preservation agents and industrial cleaners, are developed with a commitment to both performance and environmental responsibility.

Key Products

RePlay(TM): A sustainable, soy-based asphalt preservation agent that extends the lifespan of asphalt surfaces, reduces road closures, minimizes crew time, and lessens environmental impact. When applied every 3-5 years, it creates a "perpetual" road surface, reducing the need for frequent resurfacing. RePlay was applied to its 3 millionth lane-mile, preventing in total the emission of approximately 1.2 billion tons of CO₂ equivalents by replacing traditional oil-based sealants with a renewable, low-carbon alternative. Extending the life of asphalt pavements can reduce major highway maintenance spending by as much as \$37,140 per lane-mile in a given year.

OptiSeal: A deep-penetrating, biobased concrete preservative that seals and protects concrete surfaces from moisture, stopping Alkali Silica Reaction (ASR) and enhancing the longevity of concrete in various climates. Once Opti-Seal is sprayed onto the concrete surface, it can penetrate up to 4 inches and seals out moisture from the surface down. Green nanopolymers stop ASR and work as a deterrent of rust on embedded rebar.

Activate(TM): A 77% biobased alternative for transforming Reclaimed Asphalt Pavement (RAP) into like-new paving material. In contrast to traditional oil products, Activate does not require heating or additional oil. Its patented chemistry reverses oxidation and introduces new polymers, ensuring a durable, long-lasting surface.

AR-3600: A 93% biobased asphalt and tar remover ideal for cleaning trucks, pavers, and tools. The solution is safe for both the user and the environment and works faster than diesel and other fuel oils used for cleaning paving equipment.

Green Cleaners: BioSpan's line of industrial cleaners made from biobased ingredients that meet eco-certifications without compromising effectiveness.

BioSpan's products rely on biobased materials, including soybeans and recycled material, ensuring minimal environmental impact. The company is committed to using sustainable ingredients that help preserve infrastructure and reduce road maintenance costs.



Media information

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BioSpan Products

Add One

BioSpan's products, particularly RePlay, OptiSeal, and Activate, undergo rigorous field testing to ensure they deliver superior results. RePlay, for example, has shown significant improvements in asphalt durability and longevity across a range of climates and conditions. Independent studies validate its effectiveness in reducing maintenance costs and extending the life of roads.

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