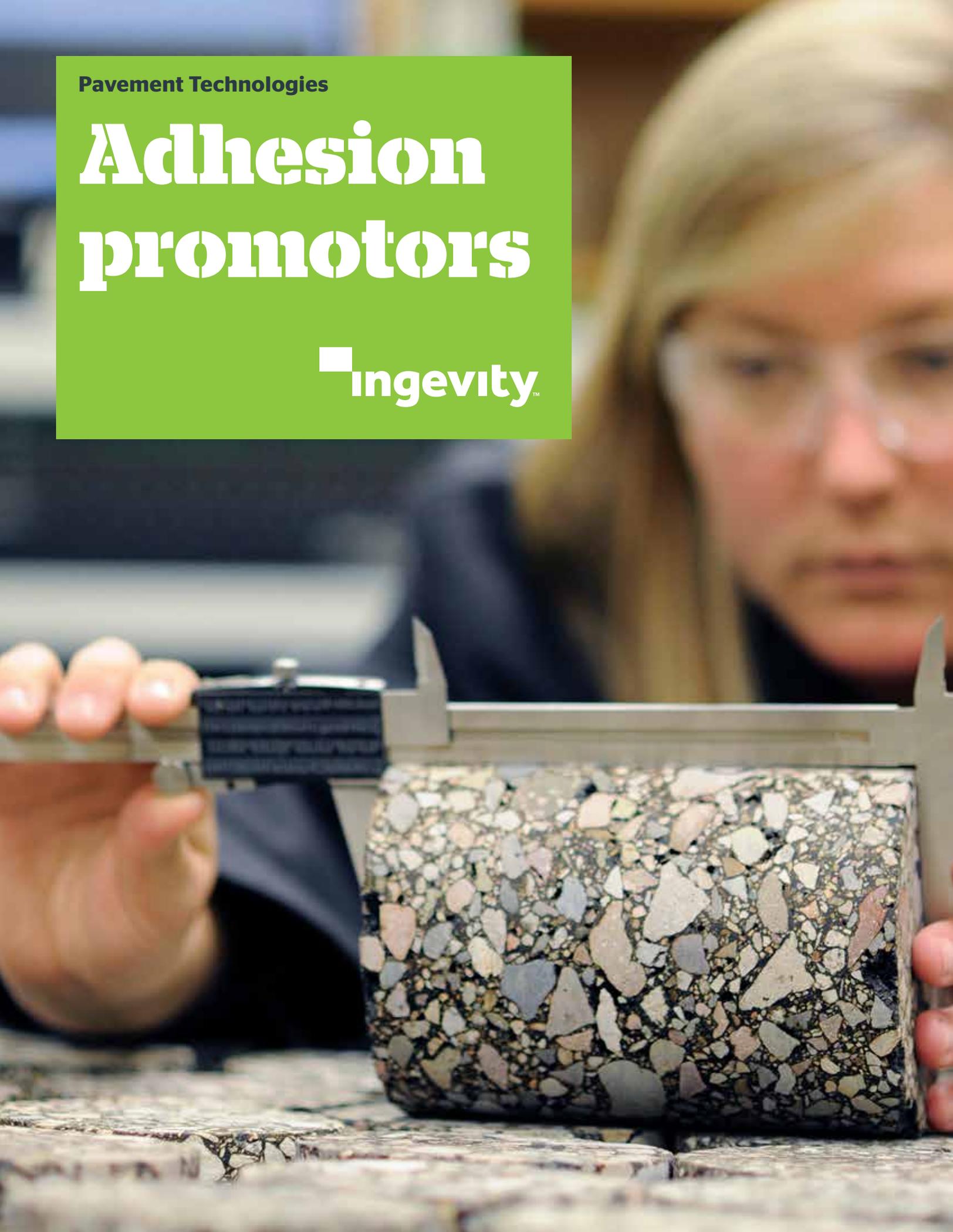


Pavement Technologies

Adhesion promotors

 Ingevity™



Adhesion promoters

Adhesion promoters, also referred to as anti-strips, are used to improve the bond between asphalt cements and the aggregates they are mixed with for road paving applications. Our Asphalt Innovations business offers a variety of liquid anti-strip (LAS) products. This guide will help you understand which LAS product offering is right for your needs.

Pave Bond Lite®

Pave Bond Lite is a low-odor, high-performance adhesion promoter for use in hot-mix asphalt (HMA) pavements. It improves the bond between asphalt and aggregates which helps overcome problems associated with poor adhesion. HMA mixes treated with Pave Bond Lite exhibit superior resistance to moisture-related damage, resulting in longer lasting pavements. In troublesome systems, this product provides significant improvements in retained tensile strength of HMA specimens. Because of its low odor, this product is a dramatic improvement over other additives with minimal to no detectable odors at the paving site.

Pave® 192

Pave 192 is a highly effective adhesion promoter for use in asphalt cements, cutback asphalts, and asphalt emulsions. It provides both wetting and bonding aid functionalities, and can be used with either wet or dry aggregate for all types of bituminous and cold patching mixes. Pave 192 improves

the stockpile life and workability of cold patch mixes without compromising long-term performance, while eliminating asphalt stripping for calcareous and siliceous aggregates.

Morlife®

Morlife adhesion promoters improve the bond between asphalt and aggregates for superior resistance to moisture-related damage, resulting in longer lasting pavements. These products provide significant improvements in retained tensile strength of HMA specimens. Morlife meets or exceeds the amine value requirements for CalTrans anti-strip specifications and has proven performance with several tailored options:

Morlife 5000: This highly consistent product improves adhesion between asphalt and aggregate. Considered “the workhorse liquid anti-strip” in states across the U.S., it is distributed from Charleston, S.C., New Orleans, LA., and Tacoma, WA.

Morlife 3300: Robust formulation promotes optimum adhesion across a broad range of aggregates and asphalts. Specifically formulated for use in states that require a minimum dosage rate.

Morlife T280: Specially engineered for demanding limestone aggregates.

Which LAS product is right for you?

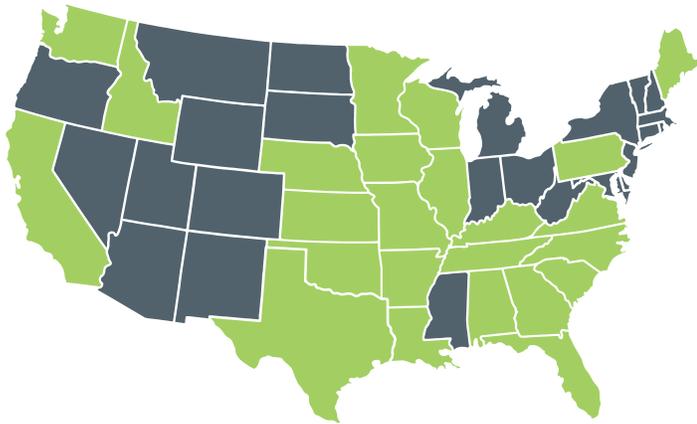
	Low odor	Low corrosion	Limestone aggregate	Granite aggregate	Cold patch and emulsions
Pave Bond Lite	■	■	■	■	
Morlife 5000				■	
Morlife 3300			■	■	
Morlife T280	■		■		
Pave 192			■	■	■

Evotherm®

Ingevity's Evotherm warm mix asphalt (WMA) technology is the industry-leading sustainable paving solution that can be used in any traditional hot mix asphalt application. Evotherm's unique chemistry allows asphalt application at a temperature that is 60-90°F lower than HMA. Over 100,000 miles have been placed worldwide with our proven technology, providing excellent performance in all types of conditions.

Evotherm's unique chemistry provides excellent compaction and workability while improving adhesion between the liquid asphalt and the aggregate. The environmentally friendly technology reduces costs while delivering longer lasting roads.

Evotherm is approved for use as a liquid anti-strip across the US.



Benefits of Evotherm:

- better workability
- improved compaction
- increased production
- extended hauls
- increased recycle percentage
- longer season
- removal of fibers

We partner with you to develop customized solutions.

Pavement Technologies, a dynamic business within Ingevity, is the global leader in the development and delivery of high-performance products and technologies for the world's asphalt paving industry.

The unique formulations of our pavement preservation products allow customers to work with asphalt paving technologies that are water-based rather than solvent-based. These alternative paving technologies present advantages on several fronts, including significant cost and energy savings associated with the elimination of traditional asphalt heating, mixing and transportation demands. Ingevity's distinctive cold mix recycling technologies allow paving contractors to repave damaged roadways with existing asphalt materials, providing an environmentally friendly alternative to standard overlays.

Specializing in customized solutions and support for a full range of asphalt paving demands, Ingevity developed Evotherm, a revolutionary warm mix additive, as an alternative to traditional hot mix asphalt. Evotherm now leads the industry in delivering proven warm mix asphalt performance at the lowest production temperatures.

**Adhesion
promoters
reduce stripping
and improve
pavement
performance.**

Pavement Technologies

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