



How can we help?

! high RAP & RAS?

Our GREEN and 100% renewable rejuvenator chemistries extract and recover the aged binder and promote re-distribution of the regenerated binder across the old and new aggregate. Low temperature PG performance and crack resistance are improved and the resulting mix will yield full warm-mix benefits.

("Warm-Mix and High RAP Additives" in Product Descriptions on Our Products page.)

! warm mix and compaction?

Today, the focus behind warm-mix has changed from saving energy at the mix plant to the quest for better compaction; potentially reducing the number of required rollers, reducing the time for road closures and/or extending the paving season in Northern climates.

We offer multiple proven pathways to warm-mix with one path being the same GREEN chemistries that support high RAP/RAS content in your mix. These unique chemistries substantially enhance water-foaming as a far-improved warm-mix option than the use of water alone. No other chemistry can offer the combined benefits of high RAP/RAS and warm-mix in a single additive.

A second chemistry path offers equivalent warm-mix benefits from a slip-agent technology with substantially improved low-temperature mix handling characteristics.

("Warm-Mix and High RAP Additives" in Product Descriptions on Our Products page.)

! modify binder viscosity?

Our GREEN and 100% renewable chemistries offer safe, efficient and economical means to reduce binder viscosity and adjust the PG of the binder, versus using aromatic extracts or other products that may contain or be produced from hazardous ingredients.

("Asphalt Performance Modifiers" in Product Descriptions on Our Products page.)

! water foaming?

The #1 complaint with water-foaming today is the rapidly stiffening mix as it's hauled to the job site. Our GREEN and 100% renewable chemistries will better than triple the foam half-life, extending hauling distance and extending laydown and compaction time, while at the same time, leaving behind an enhanced and more durable and age-resistant binder.

("Enhanced Water Foaming" in Product Descriptions on Our Products page.)



! improve workability?

All of our warm-mix technologies offer substantially improved workability to your mix, regardless if a virgin mix or RAP/RAS mix. Many recycle mixes are stiff and difficult to handle. These additives, while also improving PG of the recycle binder, will make these difficult mixes manageable again.

("Warm-Mix and High RAP Additives" & "Pavement performance Modifiers" in Product Descriptions on Our Products page.)

! cracking & raveling?

Our GREEN and 100% renewable chemistries offer significant improvement in crack resistance of the pavement mix. The rejuvenation and co-mingling of any recycle binder with the virgin binder assures improved mix strength that is less prone to cracking and raveling.

("Asphalt Performance Modifiers" in Product Descriptions on Our Products page.)

! dry or stiff mix?

Most dry or stiff mixes result from insufficient binder or ineffective recycle binder in a mix. Our GREEN and 100% renewable rejuvenator chemistries extract and recover the aged RAP/RAS binder and promote co-mingling with the virgin binder and re-distribution of the regenerated binder across the old and new aggregate.

("Asphalt Performance Modifiers" in Product Descriptions on Our Products page.)

! improve binder m-Value?

Where "m-Value" is the rate of change of Creep Stiffness of the binder over time, many refiners processing synthetic crude oil have seen a significant decline in m-Value of their asphalt. A small addition of our GREEN and 100% renewable chemistries offers significant improvement in m-Value for those unusual binders with high asphaltene content, and at nominal cost to the refiner, terminal or the contractor.

("Asphalt Performance Modifiers" in Product Descriptions on Our Products page.)

Phone: (973) 216-3560 • Fax: 970-251-7284
320 Commons Drive, Suite 313, Parkesburg, PA 19365
Offices in: Pennsylvania, New Jersey, Florida | EA