



How can we help?

☑ **high RAP & RAS?**

Our GREEN and 100% renewable rejuvenator chemistry extracts and recovers the aged binder and promotes 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?**

We offer proven pathways to warm-mix with one being the same GREEN chemistry that supports high RAP/RAS content in your mix. No other chemistry can offer the combined benefits of high RAP/RAS and warm-mix in a single additive. A second chemistry 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 chemistry offers a 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 chemistry will better than triple the foam half-life, extending hauling distance and extending laydown and compaction time.

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



improve workability?

Both 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 chemistry extracts and recovers the aged RAP/RAS binder and promotes 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 chemistry offers significant improvement in m-Value for those 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.)



☑ **recover gelled PMA?**

The effective dispersant characteristics of our GREEN and 100% renewable chemistry have been shown to be very effective in breaking and recovering gelled PMA. A little applied heat and some circulation will break down the gel and allow the contents to be recovered and reused.

(“Unique Carrier Solvents, Release Agents & Process Aids” in Product Descriptions on Our Products page.)

☑ **“green” bed release?**

An emulsion formulation of our GREEN and 100% renewable chemistry acts as an effective slip agent and anti-stick for use in hot-mix truck beds. Unlike using diesel or other petroleum solvents, there are no emissions, health or environmental hazards associated with this chemistry.

(“Unique Carrier Solvents, Release Agents & Process Aids” in Product Descriptions on Our Products page.)

☑ **tank/vessel cleaning?**

The effective dispersant characteristics of our GREEN and 100% renewable chemistry have been shown to be very effective in re-dispersing and recovering of hardened binder-tank heels and sediment. A little applied heat and some circulation will solvate the tank contents and allow the recovered asphalt to be predictably re-used into new binder, all with no need to enter the tank or vessel.

(“Unique Carrier Solvents, Release Agents & Process Aids” in Product Descriptions on Our Products page.)

Phone: (973) 216-3560 • Fax: (810) 277-7519 • Email: info@engineeredadditives.com

320 Commons Drive, Suite 313, Parkesburg, PA 19365

Offices in: Pennsylvania, New Jersey, Florida | **EA**