

INVIGORATE® ADDITIVE is a soybean oil-derived modifier that attacks the effects of age, weather and wear in reclaimed asphalt pavement — to maximize the amount of recycled material in any given hot mix.

Using patented technology, Invigorate Additive triggers chemical reactions inside RAP to break down asphaltene aggregation in aged binder and reverse the effects of oxidation in the final mix. Although the typical rejuvenator only offers a superficial change in viscosity, Invigorate Additive improves the actual chemical properties of the binder to increase RAP content without the associated drawbacks.

PROJECT LOCATION: INDIANA

Dosage	Base Binder	RAP%	Mix Testing					SIP
			CT Index 7.0%	CT Index 5.0%	DCT Energy -12°C	I-FIT	HWT at 20,000 Passes	
0%	64-22S	25%	139	84	376	1.82	2.1	28,903
4.3%	64-22S	40%	143	110	507	12.6	5.2	31,502

KEY

- Control
- Invigorate

PROJECT LOCATION: WISCONSIN

Dosage	Base Binder	ABR% (RAP & RAS)	Mix Testing				SIP
			CT Index 7.0%	DCT Energy -12°C	I-FIT	HWT at 20,000 Passes	
0%	46-34S	40%	193	559	13.6	11.8	8,953
2%	58-28S	40%	190	515	18.8	9.0	15,057

PROJECT LOCATION: MASSACHUSETTS

Dosage	Base Binder	ABR% (RAP & RAS)	Mix Testing				SIP
			CT Index 7.0%	DCT Energy -12°C	I-FIT	HWT at 20,000 Passes	
0%	64-28S	15%	111.4	433	11.4	4.5	n/a
6.3%	70-16S	30%	211	480	16.2	5.1	n/a