

Track Resistance and High Bond Strength



DuraTac is an asphalt emulsion additive that reduces tracking, accelerates drying, and enhances bond strength. DuraTac can be added to conventional cationic and anionic emulsions with simple mixing. It instantly turns a conventional emulsion into a non-tracking tack and eliminates the need for hard pen emulsions and associated problems of nozzle clogging, storage stability, and excessive heating.

HOW IT WORKS

DuraTac is a silane-based nano-polymer that has a non-stick nature. During the emulsion drying process, the polymer anchors to the surface to improve bond strength. The nano-polymer also has properties which prevent adhesion to tires.

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KEY BENEFITS

DuraTac eliminates the need for utilizing asphalt emulsions that are comprised of hard pen asphalt for non-tracking tack. Contractors and emulsion producers can continue utilizing their regular tack coat emulsions, and simply add DuraTac for on demand non-tracking performance.

DuraTac modified emulsions do not have the traditional limitations of hard pen emulsions as shown in the table below:

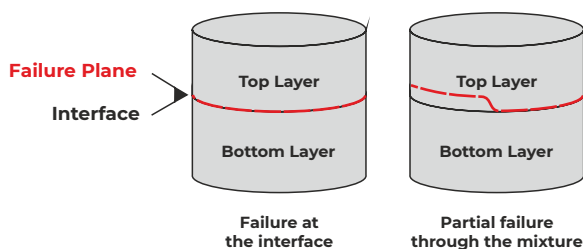
ITEM	DURATAC MODIFIED EMULSION	HARD PEN EMULSION
Emulsion Type	Anionic or Cationic	Primarily Anionic
Heating Requirements	Regular Temperatures	High Temperatures
Distributor Cleanout	Easy and Helps	Difficult
Storage Facility	No Extra Requirements	Extra Tanks Required
Ease of Manufacturing	Easy	Difficult
Nozzle Clogging	Low	High

BLENDING INSTRUCTIONS

DuraTac can be added to the emulsion at a rate of 1.5-2.5% by volume (2%-3% by wt). It can be added on site into the distributor truck or at the emulsion terminal. It is non-hazardous to handle and can be uniformly mixed with the emulsion by simple recirculation. DuraTac is also freeze thaw stable and can be easily pumped without any special requirements.

ENHANCED BOND STRENGTH

DuraTac substantially improves interlayer shear strength in accordance with AASHTO TP 114 and successfully shifts the plane of failure from the tack coat to the mix. This is illustrated below:



INTERLAYER SHEAR STRENGTH (ISS) TEST RESULTS

