Applications of HiMA™ Highly Modified Asphalt Binders to Solve Pavement Problems

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Introduction

- Highly Modified Asphalt binders have been trialed in over twenty states. In routine commercial use in some.
- A typical binder spec would be Virginia’s PG 76E-28
- Twelve years of excellent performance history.
- Now being promoted by FHWA in Every Day Counts - 6 Targeted Overlay Pavement Solutions
- Following are QR code links to background information and examples of how highly modified asphalt can be used to improve asphalt pavement performance.
Basics of Asphalt Modification

Here is a good place to start for basic information on polymer modification of asphalt.
Highly Modified Asphalt Binders

Here is some background and more detailed information on highly modified asphalt binders including specifications.
Construction with Highly Modified Mixtures

Here are some guidelines on mix production and pavement construction.
New Pavements

- Highly modified asphalt has been used in rehabilitation and reconstruction in a number of states and around the world. An excellent tool for perpetual pavement design.

![Construction image](image-url)
Cities and Towns

- For thin overlays, highly modified binders give improved resistance to reflective cracking as well as permanent deformation. Part of the EDC-6 TOPS initiative.
Bridge Decks

- For bridge decking, highly modified asphalt allows “zero void” impermeable mixes without rutting issues.
Airports

- Highly modified asphalt provides excellent shear resistance and rapid return to aircraft for runways and taxiways.
Seaports

- Superior permanent deformation resistance makes highly modified asphalt and excellent choice for port facilities with slow moving heavy loading vehicles.
Racetracks

- And the high shear resistance of highly modified binders makes them a design choice for raceways.
Kraton Polymers offers a wide range of SBS polymers for conventional and specialized polymer modified asphalts and emulsions as well as products for pavement recycling and road markings.
Webinar This Thursday!

- IMPROVING PAVEMENT VALUE AND PERFORMANCE WITH HIGHLY MODIFIED ASPHALT
- Thursday, October 28th, 2021 - 12:00 noon (EDT)

QR code to register
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