

Warm-Mix Demo

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Background

- NAPA's early interest in WMA
- IARC
- NAPA European Scan Tour – 2002
- FHWA/AASHTO Scan Tour - 2007
- Early work done
- Early predictions



Advantages of Warm-Mix

- Lower fumes & emissions (90% +)
- Lower fuel consumption (30% +)
- Decreased binder aging
- Cool weather paving
- Compaction aid for stiff mixes
- Cooler working conditions
- Eliminates bump in joint on concrete overlays
- Eliminates fume evacuation on paver & plant
- Allows higher RAP %'s
- Better joint construction due to vertical edge on mat
- Less plant wear
- Earlier site opening



Recent History

- Over 80 test jobs successfully run
- Several major jobs completed successfully
- All types of mixes run – dense graded, OGFC, SMA
- Several States are writing specs to allow WMA
- Majority of states have demonstrated WMA – 40
- Performance has been outstanding
- TxDOT will have over 300,000 tons placed soon



Industry/Agency Partnerships

- WMA Technical Working Group
 - FHWA, NAPA, SAPA, AASHTO, STATE DOT's, NCAT, Contractors, Labor & NIOSH
 - Mission: To evaluate WMA, validate and share information
 - Purpose: Guidance for research and implementation of WMA



Industry/Agency Partnerships

- NAPA Warm-Mix Asphalt Task Force
 - * Provide leadership & set goals for implementation
 - * First meeting at Mid-Year this month



Information Available

- Web site: www.warmmixasphalt.com
- NAPA's Warm-Mix Asphalt: Best Practices
- NAPA's Warm-Mix Asphalt: Contractors' Experience



The Green Movement

- Importance of our industry's involvement
- WMA fits perfectly
- Other green attributes of HMA
- Understanding LEED's
- Green will be a major driver in the future



Why Do We Need WMA?

- Better Air Quality
- Better Environmental Efficiency
- Better Performance
- Better Compaction
- Better Working Conditions



CONCLUSIONS

- WMA is the future of asphalt mixes
- Technical providers are leading the parade
- Industry & Agencies must work together to make it happen
- Advantages far out weigh any risks
- HMA will add to the versatility of the product



Questions?



