

Impact of Polymer Modified Mixes on the Industry



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History

- PMAC mixes first arrived late 80's – early 90's
- Developed as value added formulation in the beginning
- Formulation incorporates synthetic polymers into the binder
- Theory – stiffen the binder while providing a more elastic material

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Current

- Specifications are now starting to incorporate the use of PMAC
- Primarily in Ontario, low temperature flexibility of the asphalt mixture
- Reducing wear/tear that can cause cracking and deformation
- Requires new or different ways of handling and working processes



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Plant



- Storage and Handling throughout the Plant
- Incompatibility with other Binders
- Tendency to stiffen up as the PMAC cools
- Power usage, wear/tear on machinery
- How to handle blocked pipes, valves, gates, etc.
- Clean-up procedures
- Do's and Don'ts

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Worksite

- Transporting and handling of the asphalt through the paving training
- Working with temperatures, maintaining temperatures
- Release agents to be used, how are they applied?
- Rubber tire pick-up issue, what to do?
- Special machine maintenance practices that we have learned about



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Thank You to our Discussion Panelists

- ❖ *Paul Holroyd, Multisolv Inc.*
- ❖ *Don Bernal, Corfinium Solutions*
- ❖ *Kent MacCaskill, R.W. Tomlinson Ltd.*
- ❖ *Tim Roussy, Astecs*
- ❖ *Kyle Martin, Fermar Paving Ltd.*
- ❖ *Steve Gostis, Toromont CAT*