Warm Mix Asphalt

Lower Temperatures Improve Pavement Quality

Warm Mix Asphalt (WMA) allows for asphalt to be produced and placed on the road at lower temperatures than the traditional hot mix method. WMA is a Federal Highway Administration (FHWA) Every Day Counts Round 1 (EDC-1) innovation that Pennsylvania championed.

What are the benefits?

- Lower temperatures allow for an **extended paving season**
- **Asphalt compaction** is **improved** by **providing proper density to the mixture**
- **Paving costs** are **reduced** through a **decrease in time and labor** spent compacting the mixture
- **Fuel consumption** and **emissions** are **reduced**, enhancing **worker safety** and **reducing pollution**

How does it work?

Less energy is needed to heat the WMA mix and less fuel is needed to produce it. Fuel consumption during WMA application is typically reduced by 20 percent. WMA technologies reduce the thickness of the binder so that asphalt aggregates can be coated at lower temperatures. WMA is eligible for Municipal Liquid Fuels Funds, an important funding source for local transportation projects.

How do I learn more?

Visit FHWA's Every Day Counts website at www.fhwa.dot.gov/everydaycounts.

The Pennsylvania State Transportation Innovation Council (STIC) supports and promotes the deployment of several EDC innovations. To learn about the STIC, visit www.penndot.gov/stic or email penndotstic@pa.gov.