

# sonneborn

REFINED PRODUCTS



## SonneWarmix™ Warm Mix Asphalt (WMA) additive

An innovative and efficient WMA alternative paving solution

### SonneWarmix™ Descriptors

- A high melt point hydrocarbon blend that functions both as a highly effective WMA additive and as a compaction aid
- Lowers the production temperature (~50°F), reducing oxidative aging of the binder
- Reduces fuel consumption/fuel cost and reduces green house gas emissions
- Improves Worker Health and Safety due to the reduced emissions
- Allows for increased RAP content in the mix design with effective workability results
- Increases haul distances
- Extends the paving season into colder weather
- Increases available time for compaction and achieves greater in-place densities
- Offers significant improvements in hand-work
- Allows for liquid, in-line blending

### Special Attributes

- Compaction aid
- Provides lubricity
- Co-mingles well with RAP
- No PG grade changes

### SonneWarmix™ Typical Properties

Drop Melt point	ASTM D-127	175°F
Viscosity @ 100°C	ASTM D-3236	14.6 cPs
Color/Appearance	Visual	Brown
Liquid temperature		195-200°F

### Applications

Can be used in all WMA applications and as a compaction aid for multiple applications:

- RAP mix designs
- Asphalt Rubber
- PMA mix designs
- Latex compaction aid
- Used for all PG grades
- RAS compaction aid

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