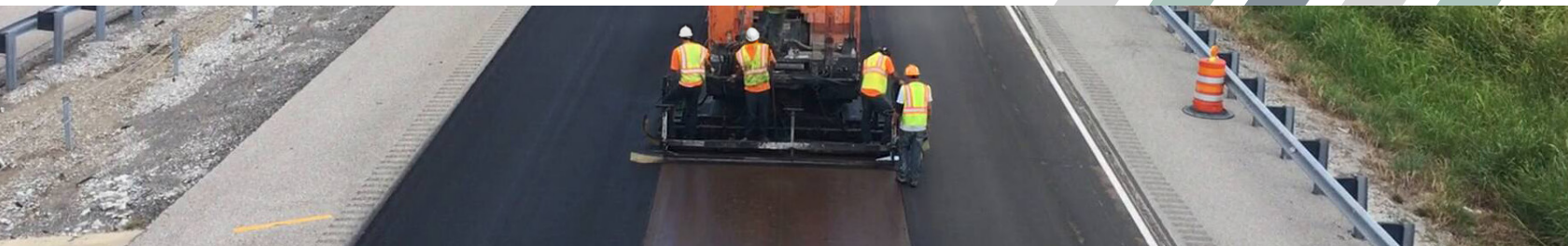


MICRO SURFACING

Emulsified Asphalt Seal

Micro surfacing is a surface treatment designed to extend the life of asphalt pavements in good condition by providing additional skid resistance, reducing moisture intrusion, protecting from oxidation and raveling, and restoring a uniform black appearance. It can also be used for rut repairs and is the most economical choice for leveling.



THE PROCESS

Micro surfacing can be applied by a continuous or truck-mounted paver. It is a carefully designed mixture of fine aggregate, asphalt emulsion, additives and water, often with a polymer added to provide optimal mixture properties. The treatment is applied in a homogenous mat which adheres firmly to the surface. Traffic can be returned to the roadway quickly, typically within one hour.

*BENEFITS

- Reduces life cycle costs of roadways by 25-45% compared to traditional resurfacing
- Reduces energy use and greenhouse gasses by more than 44% compared to hot mix asphalt placement
- Return to traffic within 1 hour
- Adds at least 6-8 years when applied at optimum time for pavement preservation

*ISSUES ADDRESSED

- Friction loss
- Raveling & Rutting
- Oxidation
- Uneven surface profile or color

MATERIALS USED

- **Aggregate:** Crushed stone such as granite, limestone or slag can be used. Gradation of the stone is required
- **Asphalt Emulsion:** A cationic polymer-modified emulsion is needed
- **Mineral Filler:** Mineral fillers such as portland cement, hydrated lime, limestone dust and fly ash are typically used. The mineral fillers are used to adjust mixture breaking and curing times
- **Water:** Potable water is best and must have the correct pH balance to work with the mix design
- **Additives:** Additives may be used to accelerate or slow the break/set times of the micro surfacing

**Reported by RoadResource.org by PPRA*

073024

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