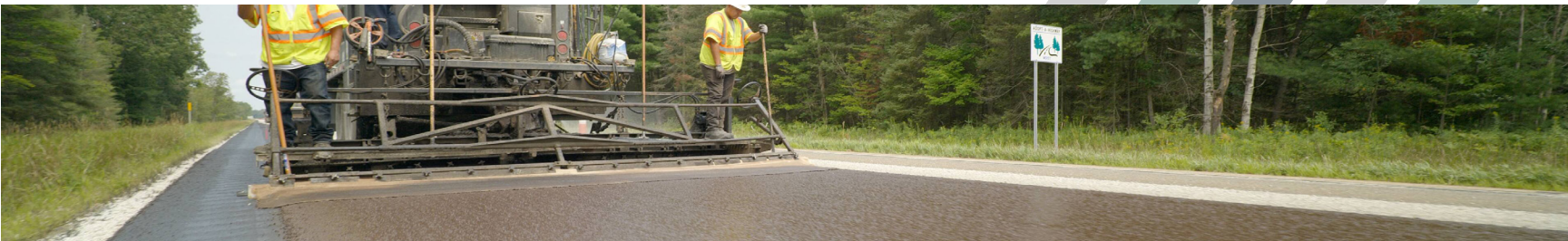


CAPE SEAL

Chip Seal + Micro Surfacing

Cape seal is a surface treatment that combines a chip seal application covered by a slurry seal or micro surfacing application. It is designed to extend the life of pavements in fair to good condition. Cape seals are beneficial in urban areas where chip seals alone are not preferred.



THE PROCESS

First, chip seal is applied to the surface as a layer of asphalt emulsion covered in a layer of aggregate. The emulsion can be polymer modified to improve aggregate retention and a quicker return to traffic. Chip seal is followed by a micro surfacing or slurry seal layer, restoring the surface characteristics of pavement, protecting the structure from moisture intrusion and oxidation. Cape seal is known for quick construction and return to traffic.

*BENEFITS

- Reduces life cycle cost by 24% compared to a traditional hot mix asphalt overlay (HMA)
- Reduces greenhouse gases by 30% compared to HMA overlay
- Adds 8-10 years to the life of pavements when applied at the correct time

*ISSUES ADDRESSED

- Moderate cracking
- Loss of friction
- Oxidation
- Raveling

MATERIALS USED

- Aggregate: Granite, limestone, reclaimed asphalt pavement (RAP) and slag are most common
- Emulsion: Polymer modified emulsions on both the chip seal and micro surface are suggested



Watch a cape seal application on US-127 in Michigan to extend the pavement's lifespan.

**Reported by RoadResource.org by PPRA*