



Seal Coat (Chip Seal) Surface Treatment

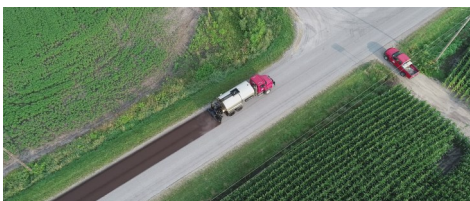


Chip sealing is one of a “mix of fixes” that is used for pavement preservation and rehabilitation.

The process involves spraying a thin film of heated asphalt liquid (emulsion) on the road surface, followed by the placement of small aggregates (chips).

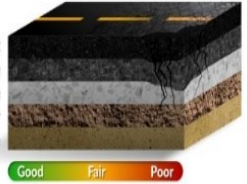
The chips are rolled to orient the chips for maximum adherence to the asphalt. Excess stone is swept from the surface.

The process is intended to extend the service life of pavements and delay the need for expensive and invasive complete reconstruction.



Construction Process

Preventive Maintenance Treatment
Existing Surface Course
Existing Base Course
Sub-base of Aggregate Layer
Compacted Sub-grade



Construction Sequence

1. Surface Preparation
2. Sweeping
3. Liquid Asphalt (Emulsion) Application
4. Aggregate (Chip) Spreading
5. Rolling
6. Sweeping
7. Fog Seal Application

Surface preparation varies depending on road conditions and includes — but is not limited to — patching potholes, repairing edging, wedging of the pavement surface and crack sealing.

Emulsion is applied using specialized computer control distributor trucks at calculated application rates in various widths.

Chip spreading and application is controlled using a specialized machine to achieve accurate and effective amounts of material applied in a single layer.

Sweeping is done before liquid fog seal application after the aggregate spreading and rolling. The sweeping process is done using a rotary broom with nylon/steel bristles or mobile vacuum equipment.



Chip Seal Benefits

- ⇒ Effective, low-cost way to repair roads.
- ⇒ Enhances traction/Skid Resistance
- ⇒ Durable.
- ⇒ Short project timeline.
- ⇒ Extends life of road 5 to 10 years.

Conditions

Chip seal treatments are typically applied during the warmest summer months of June, July and August. The asphalt emulsion requires warm temperatures and low humidity to be most effective.

Taking in account changes in weather, cost effectiveness and traffic convenience, chip seal treatments are generally completed in a single day for a given stretch of road. Fog seal will follow several days to weeks later and is completed in a single day.



Roadways being chips sealed will often require signal lane or full roadway closures with intermediate traffic stoppage/delays.

Traffic is asked to be limited to local traffic only to ensure crew safety and timely project completion.

Until the roadway is swept of loose stone after the rolling process, speeds should be slowed to avoid damages any damages.

Communications

Stay in touch with us for the latest info at ottawacorc.com, our social media pages, or by calling the main office at 616-842-5400.



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