

Addressing Chip Sealing Concerns

City Engineering is responsive to public concerns about loose aggregate and dust associated with chip sealing. Steps to improve overall conditions during the project include:

- Placing signs to warn of loose aggregate.
- Providing inlet protection to reduce chance of aggregate washing into storm sewer.
- Conducting multiple street sweepings with contractor and City crews.



CHIP SEALING
PROGRAM

City of Madison
Engineering Division
210 Martin Luther King Jr. Blvd.
Madison, WI 53703
Phone: (608) 267-1997
E-mail: PublicWorks@cityofmadison.com

PROVIDING BETTER
STREETS FOR MADISON

Chip Sealing Program



A cost effective and environmentally friendly solution.

Chip Sealing Program

The Chip Sealing Program is designed to improve the quality of your street and delay the need for resurfacing or total reconstruction. Chip sealing is a cost effective preventative maintenance method used to extend the useful life of Madison's streets. It is intended for application on streets that are still in good condition, structurally sound and in need of little repair. The street is first sealed with an application of a binder in the form of an emulsion (asphalt and water). Then an application of aggregate or chips immediately follows.

Chip Sealing Criteria

The City Engineering Division rates streets every two years. Streets with a pavement rating of 6 or greater on a scale of 1 to 10 (10 being a new street) are ideal for chip sealing. They may have been recently constructed, resurfaced or reconstructed, crack sealed or patched. The goal of chip sealing is to extend the useful life of the street 30

years or more before additional resurfacing or full street reconstruction project is necessary.

Chip Sealing is Eco-Friendly

The City of Madison specifies the use of granite aggregate which is natural material. The aggregate is cleaned and graded to meet City specifications. The end product is a non-carcinogenic material that provides a new wearing surface and pavement sealer for Madison's streets.

It's Cost Effective

Cost savings with chip sealing add up when compared with other road maintenance measures.

- Chip Seal = \$1.50 per square yard
- Thin Overlays = \$15 per square yard
- Resurfacing = \$25-\$30 per square yard
- Reconstruction = \$60-70 per square yard
- Chip Sealing will save tax payers millions of dollars over the expected life of the street.

Maintenance Cost Savings

Pavement rating changes over the life of a street. Chip Sealing as part of a pavement maintenance program keeps streets in good condition for longer. The chip sealing surface treatment will last 5-7 years.

Disadvantages are Temporary

Chip Sealing generates excess gravel dust, but the process is short lived and lasts only a few weeks.

BENEFITS OF CHIP SEALING

- Saves millions of dollars
- Underlying pavement is protected from aging caused by the sun and traffic wear.
- Small cracks and imperfections are sealed and the pavement is water proofed
- It's quicker than street resurfacing or reconstruction, the process is completed in a few weeks.
- Saves natural resources

Phone: (608) 267-1997

E-mail: PublicWorks@cityofmadison.com