

# Chip Seal

A smart choice for low cost paving and pavement preservation.



GLC

GENERAL LIQUIDS CANADA

## Preserve. Restore. Protect.

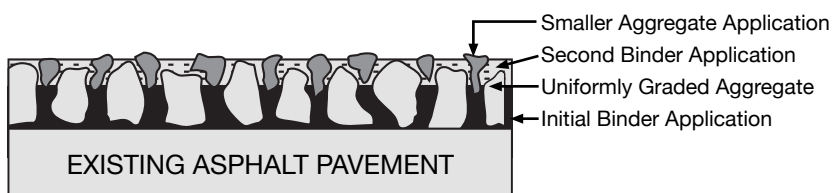
Ever-increasing traffic, incessant freeze and thaw cycle, moisture susceptibility and pavement oxidation are the major causes for road degradation. The most economical and cost effective pavement preservation and restoration method available is chip seal—the application of an asphalt emulsion or asphalt binder on an existing pavement surface followed by an aggregate of uniform size.

Chip sealing rectifies existing cracks and prevents new cracks from forming. As well, it provides an excellent water proof barrier to prevent water seepage into sub layers.

The two most common varieties of chip seal applications are the single chip and double chip. We recommend using our specially blended polymer emulsion if the pavement surface is severely distressed.



Cross-section of a one-size seal coat aggregate



Double Seal (2 layers of binder and aggregate)

### SUITABILITY:

- Best used when the deterioration is greater than a slurry seal application can mend.
- Perfect for highways, municipalities, city roads, rural roads and parking lots.
- Ideal when the budget is tight, but a proper surface restoration is still required.

### PROCESS:

- Careful evaluation of the existing surface to select the right type of application.
- Extensive lab design to select the right emulsion, aggregate and chip seal system.
- Preparation via patching and crack filling.
- Spreading of asphalt emulsion by a computer-controlled, automated sprayer.
- Spreading of aggregate chips using a computer-controlled spreader followed by rolling and sweeping.

### ADVANTAGES:

- **Approximately 1/4 the cost of conventional hot mix asphalt overlay - great for low volume roads.**
- A cost effective and environmentally friendly way to preserve, protect and extend pavement life while providing a new skid resistant surface.
- Polymer modified chip seal adds new dimension to treatment by improving stone retention at high temperatures.
- Great for rural road dust suppression and guarding against wash boarding.

# Innovation in Action

A division within the Municipal Group of Companies, General Liquids Canada serves a variety of clients within the construction industry, including road builders, industrialists and other business-to-business users of bitumen-based products. Our products and services are backed by:

- a team of skilled technicians and operators
- a modern emulsion production facility
- an efficient and automated terminal
- a comprehensive testing/research laboratory



GLC also provides material performance research to promote new and more effective ways of constructing, sealing and preserving roads and structures. We continually strive to develop new, performance-based products that are eco-friendly, energy efficient and cost effective.



General Liquids Canada is an ISO 9001 (quality), 14001 (environmental) and AASHTO (laboratory) accredited facility.



For more information, visit [www.general-liquids.ca](http://www.general-liquids.ca) or call 902-835-3311.