



SLURRY/MICRO SYSTEMS:

- Slurry Seals**
- Micro-Surfacing**
- Cape Seals**
- Coloured Slurry**
- Liquid Road®**

MCA
P R O C E S S E S

THE MCA ADVANTAGE

With the MCA Advantage, you get a partner and advisor who will consult with you about designs, specifications, technical services, processes, and material selection. By developing innovative, custom-designed products that offer additional benefits such as peak performance in unique conditions, improved field performance, and greater environmental and health benefits, the MCA Advantage provides significant long-term cost savings, resulting in a lower “total cost of ownership.”

SLURRY SEALS

A slurry seal is a mixture of aggregate, emulsified asphalt, water, and additives that are proportioned, mixed, and spread over a prepared surface. A polymer-modified system can be used in order to enhance one or more properties of the slurry in order to meet a project’s particular requirements. Slurry seal is applied in a single layer.

MICRO-SURFACING

Micro-surfacing is composed of engineered, polymer-modified asphalt emulsions mixed with crushed, well-graded aggregate, mineral filler, water, and additives. The main difference between this system and other slurry systems is that micro-surfacing is stackable and therefore engineered for filling ruts and correcting minor structural deficiencies.

CAPE SEALS

A cape seal is a combination of a single chip seal application followed by a slurry seal or micro-surfacing application. The slurry seal or micro-surfacing application helps to fill the voids between the previously laid chips. The slurry seal also bonds the chips together in order to prevent the loss of material while the chips prevent undue traffic stresses on the slurry. Inverted cape seals are often used as a rut fill followed by a single chip application for an economical solution to wheel path pavement deformation. Cape seals are often used because of the aesthetics of the finished surface.

COLOURED SLURRY

Coloured slurry is a mixture of synthetic emulsion binder, pigments, and specially selected aggregates. Coloured slurry is quick to set, can be produced in almost any colour, and creates a durable, attractive wearing surface with excellent skid resistance. Uses include lane delineation, shoulder delineation, decorative medians, crosswalks, driveways, golf cart paths, bike paths, and turning lanes.

LIQUID ROAD®

Liquid Road® is a high-performance, fibre-reinforced asphalt emulsion blended with polymers, mineral aggregates, and special surfactants designed to create superior adhesion, flexibility, and durability in the pavement surface. The product can be used as a seal for oxidized and aged pavement or for a newly-placed chip seal.

FEATURES AND BENEFITS

- High production rates mean lower user costs
- Eco-efficient processes save energy and resources compared to hot-mix overlays
- Slurry systems can be used as a cost-effective alternative to micro-surfacing in areas that do not require cross-sectional profile correction or rut fill
- Prevents surface distresses, keeping good roads in good shape
- Restores a roadway surface without requiring or affecting curb reveals
- Reduces water and air infiltration, minimizing oxidation, ravelling, and freeze-thaw damage
- Gradations can be varied in order to achieve a desired level of friction, improving skid resistance
- Provides a protective layer/wearing course, extending the service life of the roadway
- Covers segregated areas: end of load, random, longitudinal, gearbox segregation, etc.
- Covers flushed and bleeding areas
- Multi-lift system enhances the driveability of the roadway
- Enhances the aesthetics of the existing roadway by covering defects and imperfections
- Economical solution to preserving infrastructure and capital investment in pavements



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