



**WMA is an alternative to conventional binders**

# **ASPHALT CEMENTS**

Modified for various climates

**Performance-Graded Asphalt Cements (PGAC)**

**Polymer-Modified Asphalt Cements (PMA)**

**Penetration-Viscosity Graded Asphalt Cements**

**Specialty Asphalt Cements**

**Asphalt Additives & Modifiers**



*The industry's top experts for over 50 years, offering products and services from 29 strategically located terminals across Canada, coast to coast.*

**[mcasphalt.com](http://mcasphalt.com)**

ISO 9001/14001/45001

## 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."

### PERFORMANCE-GRADED ASPHALT CEMENTS (PGAC)

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McAsphalt's performance-graded products meet or exceed the AASHTO M 320 specification requirements and are engineered to address the fundamental material properties that account for specific pavement distresses and failure mechanisms. The grade of each PGAC defines the temperature ranges in which the asphalt cement can remain neither too soft nor too brittle. This grade is specified by climatic conditions, traffic volume, and traffic type.

### POLYMER-MODIFIED ASPHALT CEMENTS (PMA)

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Polymer-modified asphalt cements (PMA) have been used for many years to both reduce the stresses on and increase the service life of hot-mix asphalt pavements and overlays. McAsphalt offers the industry's most advanced line of PMA, designed to maximize the beneficial effects of the binder on permanent deformation, fatigue, and low-temperature cracking in your unique environment and traffic conditions.

### PENETRATION-VISCOSITY GRADED ASPHALT CEMENTS

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Engineered to meet the CAN/CGSB-16.3-M90 specification, as well as specific provincial/state and regional requirements, these asphalt cements reflect a more empirical asphalt cement grading system.

### SPECIALTY ASPHALT CEMENTS

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McAsphalt's expertise in binder modification and our state-of-the-art facilities allow us to custom-blend asphalt products for many pavement and non-pavement-related industries. Specialty binders can be engineered for recycling or rejuvenating aged asphalt

and can be used in unique environments such as racetracks, airports, and container terminals. We can also engineer custom-blended products for the adhesives industry and for roofing/waterproofing applications.

Crumb rubbers are specially engineered, high performance asphalt cements containing recycled tire rubber. They are engineered to meet ASTM D6114 specifications and offer several design advantages when used for noise absorption or quiet pavements.

### ASPHALT ADDITIVES & MODIFIERS

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McAsphalt provides the road construction industry with high-quality asphalt additives that increase the adhesion between asphalt cements and aggregates while improving pavement performance via reduced pavement rutting and moisture-induced damage. Our products can save time and money for mix producers and paving contractors and can improve the overall performance of the pavement while simultaneously extending its service life.

Warm-mix asphalt cement (WMA) is an alternative to conventional binder that delivers longevity and performance while dramatically reducing emissions and fuel demands. Our innovative technologies are designed to improve the aggregate coating, workability, compaction, and adhesion of asphalt mixes. WMA is a long-lasting pavement surface solution that significantly lowers temperatures for asphalt production and application, allowing for major reductions in fuel consumption, energy requirements, and environmental impacts, all while improving working conditions.



THE RIGHT MIX

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