

## COLASPHALT PRIME

### ANIONIC EMULSION FOR PRIMING AND GRANULAR SEALING

#### PRODUCT DESCRIPTION

**COLASPHALT PRIME** is an anionic emulsion designed primarily for priming substrate and granular sealing.

The combination of asphalt and special penetrating agents gives **COLASPHALT PRIME** the wetting power needed to penetrate deep into a granular surface while effectively binding the aggregate particles in order to achieve stabilization.

#### GENERAL PRODUCT FEATURES

- Low viscosity anionic emulsion designed for optimum flow and excellent wetting ability when combined with fine and very fine aggregate particles
- Very small emulsion particle sizes which helps in penetrating capillary-sized pores and small voids in the compacted granular layer
- Provides excellent performance for highway shoulder priming and sealing, stabilizing the shoulders and preventing the ingress of water into the road base
- Stabilizes granular bases prior to paving
- Primed granular bases can be opened to traffic for a number of days prior to paving.

#### RECOMMENDED USE

**COLASPHALT PRIME** emulsion is formulated for use as an emulsified primer or a granular sealant. It also performs well as a dust control emulsion.

**COLASPHALT PRIME** can be used with scarification and compaction or it can be sprayed directly onto a granular base. Once the emulsion has penetrated a granular material and cured, the road can then be opened to traffic. The primed base provides superior stability and strength and gives the paving process the ability to achieve better density and less movement during compaction.

#### SPECIFICATIONS AND TYPICAL RESULTS

TEST	TYPICAL DATA	SPEC.	
		Min	Max
<b>Tests on Emulsion</b>			
SF Viscosity, 25°C, SFs	<b>20.0</b>	10	50
Sieve Test, 850 µm, %	<b>0.01</b>	-	0.1
Settlement, 5 day	<b>PASS</b>	No visible separation	
Distillation Residue, 260°C, %	<b>42.0</b>	40	-
Oil Portion of Distillate, %	<b>4.50</b>	1.0	10
Demulsibility, 0.2 N CaCl <sub>2</sub> , %	<b>0.00</b>	-	-
Particle Charge	<b>(-)</b>	<b>(-)</b>	
<b>Tests on Residue</b>			
Penetration, 25°C, dmm	<b>140</b>	40.0	200
Solubility in TCE, %	<b>99.9</b>	97.5	-
Ductility, 25°C, cm	<b>65.0</b>	60.0	-

#### APPLICATION GUIDELINES

##### GRANULAR SEALING

**COLASPHALT PRIME** is applied to a granular surface at a spray rate of 2.0 to 3.5 L/m<sup>2</sup> (0.44 to 0.77 gal/yd<sup>2</sup>). The spray rate for distributor work is typically 3.0 L/m<sup>2</sup> (0.66 gal/yd<sup>2</sup>) while the spray rate for handwork is typically 3.5 L/m<sup>2</sup> (0.77 gal/yd<sup>2</sup>).

##### PRIME COATS

**COLASPHALT PRIME** is applied to a granular base as a prime coat at an approximate spray rate of 1.0 to 2.0 L/m<sup>2</sup> (0.22 to 0.44 gal/yd<sup>2</sup>).

##### DUST CONTROL

**COLASPHALT PRIME** is ideal for spraying on low-volume, unpaved roads as a means of dust control. This emulsion is sprayed in repeated light applications at a rate of 0.45 to 2.25 L/m<sup>2</sup> (0.10 to 0.50 gal/yd<sup>2</sup>), depending on the condition of the existing surface.



#### MCASPHALT INDUSTRIES LIMITED

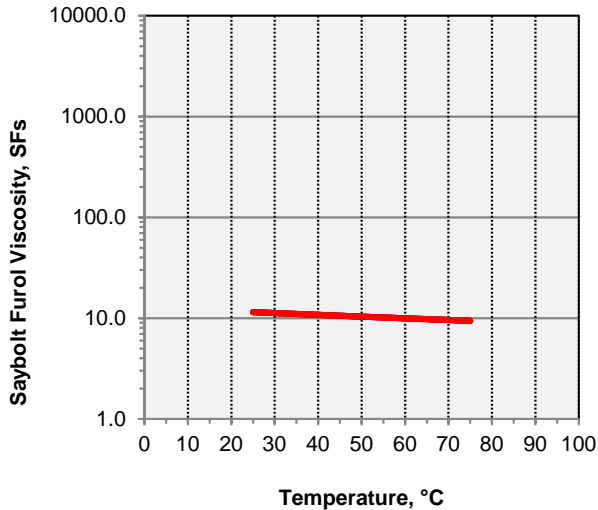
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 ISO 9001/14001/45001

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#### TEMPERATURE VISCOSITY CURVE



#### CERTIFICATION OF QUALITY

McAsphalt Industries Limited is accredited to the quality management standard **ISO 9001**, the environmental management standard **ISO 14001**, and the occupational health and safety standard **ISO 45001**.

Each lot of **COLASPHALT PRIME** is produced using the strictest quality, safety, and environmental guidelines. Each production lot is tested to ensure it meets or exceeds all performance requirements and is delivered with a Certificate of Analysis. .

#### PRODUCT SUPPORT

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 lower total cost of ownership.

#### PACKAGING, STORAGE AND HANDLING

- **COLASPHALT PRIME** should be stored in bulk tanks, ideally vertical to minimize surface area
- Do not allow **COLASPHALT PRIME** to either freeze or boil: it will break. Safe storage temperatures range from 10°C (50°F) to 85°C (185°F).
- In bulk storage, mix the **COLASPHALT PRIME** every 1 to 2 weeks (more frequently in cold weather). Mixing may be done by paddle agitator (slow), loose gear pump, slow centrifugal pump, or other suitable low shear pump.
- Do not bubble air through **COLASPHALT PRIME** to agitate it: this creates excessive foam and may cause the **COLASPHALT PRIME** to break.
- Always use clean storage containers. Make sure prior contents are compatible with **COLASPHALT PRIME** or the emulsion may break.
- Only use approved and sealed containers for sampling the emulsion.



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