PRODUCT DATA SHEET

ACM-5

ANIONIC COLD MIX ASPHALT EMULSION

PRODUCT DESCRIPTION

ACM-5 is a low viscosity, high residue anionic asphalt emulsion specifically designed and formulated for use in the production of plant-mixed **ACM-5 MacPatch**.

ACM-5 emulsion is designed to produce mixes that remain workable for extended periods.

ENVIRONMENT CANADA – CODE OF PRACTICE

ACM-5 meets the usage requirements for the ozone season under the Recommended Code of Practice for the Reduction of Volatile Organic Compound Emissions for Emulsified Asphalts.

GENERAL PRODUCT FEATURES

- To be mixed in hot mix plants (drums, batch, or pugmill)
- Unique formulation resists stripping and bleeding
- High residual binder content
- Remains workable in stockpiles for up to one year
- Excellent workability and cohesion at low temperatures

RECOMMENDED USE

ACM-5 emulsion is used to make **ACM-5 MacPatch**, cold mix, and cold patch which are used for repairing asphalt pavement, driveways, and parking lots.

APPLICATION GUIDELINES

- Do not apply **ACM-5** if precipitation is anticipated.
- Contact your local ***MCA*** **Marketing** representative for application temperature guidelines.

DESIGN CRITERIA

A coating test should be run on job aggregate to determine compatibility and, in the case of cold mixing, mixing ability.

MIXING PROCEDURES

Please refer to **McAsphalt Industries Limited's** "**ACM-5 MacPatch Technical Bulletin**" in regard to mixing procedures for drum, batch, and pugmill plants.

TYPICAL AGGREGATE GRADATION

Mineral aggregates used should consist of clean, hard, and durable particles conforming to the below-listed physical requirements.

SIEVE SIZE	% PASSING (BY WEIGHT)
16.0 mm (5/8")	**100**
13.2 mm (½")	**98 - 100**
9.5 mm (3/8")	**85 - 98**
4.75 mm (#4)	**50 - 85**
2.36 mm (#8)	**35 - 65**
1.18 mm (#16)	**25 - 50**
600 µm (#30)	**15 - 40**
300 µm (#50)	**7 - 25**
150 µm (#100)	**2 - 13**
75 µm (#200)	**0 - 7**

SPECIFICATIONS AND TYPICAL RESULTS

TEST	TYPICAL DATA	SPEC.	
		Min	Max
Tests on Emulsion			
SF Viscosity, 50°C, SFs	**160**	100	300
Sieve Test, 850 µm, %	**0.03**	-	0.1
Settlement, 5 days, %	**0.6**	-	3.0
Distillation Residue, 260°C, %	**92**	85	-
Oil Portion of Distillation, %	**2.3**	2	7
Particle Charge	**(+)**	(+)	
Tests on Residue			
Penetration, 25°C, dmm	**500+**	500	-

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ISO 9001/14001/45001

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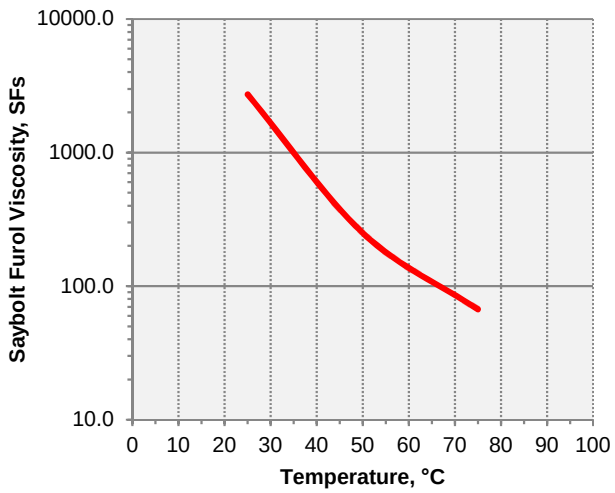
TEMPERATURE VISCOSITY CHART



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 **ACM-5** 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

- **ACM-5** should be stored in bulk tanks, ideally vertical to minimize surface area.
- Do not allow **ACM-5** 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 **ACM-5** 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 **ACM-5** to agitate it: this creates excessive foam and may cause the **ACM-5** to break.
- Always use clean storage containers. Make sure prior contents are compatible with **ACM-5** or the emulsion may break.
- Only use approved and sealed containers for sampling the emulsion.

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