

ENVIRO-PREM

SOLVENT-FREE EMULSION FOR PRIMING AND GRANULAR SEALING

PRODUCT DESCRIPTION

ENVIRO-PREM emulsion is a solvent-free, environmentally friendly anionic emulsion that is designed primarily for priming and granular sealing. This emulsion is also suitable for other uses, such as tack coating and various other industrial uses.

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

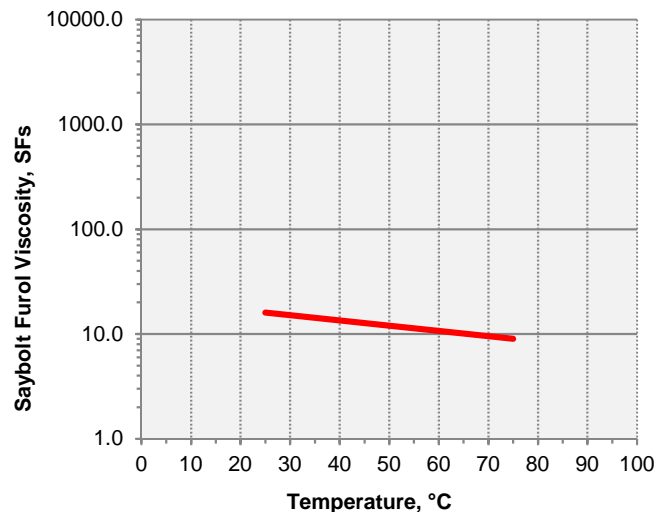
GENERAL PRODUCT FEATURES

- Low viscosity anionic emulsion designed for optimum flow
- Excellent wetting capabilities for fine and very fine aggregate particles
- Very small particle size emulsion, penetrating capillary-sized pores and small voids in compacted granular layers
- Unlike traditional emulsified primes, the **ENVIRO-PREM** emulsion contains no hydrocarbon solvent fractions. This makes the product VOC-free and compliant with the newest and most stringent environmental requirements.
- Provides excellent performance for highway shoulder priming and sealing, stabilizing the shoulders and preventing water ingress 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.

SPECIFICATIONS AND TYPICAL RESULTS

TEST	TYPICAL DATA	SPEC.	
		Min	Max
Tests on Emulsion			
SF Viscosity, 25°C, SFs	14.5	5	50
Sieve Test, 850 µm, %	0.02	-	0.1
Storage Stability, 24 h, %	1.0	-	1.5
Distillation Residue, 260°C, %	42.5	35	-
Oil Portion of Distillation, %	trace	-	trace
Particle Charge	(-)	(-) or (0)	
Tests on Residue			
Penetration, 25°C, dmm	85	40	100
Solubility in TCE, %	99.9	97.5	-
Ductility, 25°C, cm	68	40	-

TEMPERATURE VISCOSITY CHART



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 ISO 9001/14001/45001

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RECOMMENDED USE

ENVIRO-PREM emulsion is formulated for use as an emulsified primer or a granular sealant. It also performs well as a tack coat or a dust control emulsion.

ENVIRO-PREM can be used with scarification and compaction or be sprayed directly onto the granular base. Once the emulsion has penetrated the granular material and cured, the road can be opened to traffic. The primed base provides superior stability and strength and allows the paving mix to achieve better density and stabilizes it during compaction.

APPLICATION GUIDELINES

GRANULAR SEALING

ENVIRO-PREM is applied to a granular surface at a spray rate of 2.0 to 3.5 L/m² (0.4 to 0.8 gal/yd²). A rate of 3.0 L/m² (0.7 gal/yd²) is ideal for distributor work while 3.5 L/m² (0.8 gal/yd²) is ideal for handwork.

PRIME COATS

ENVIRO-PREM is applied to a granular base as a prime coat at an approximate spray rate of 1.0 to 2.0 L/m² (0.2 to 0.4 gal/yd²).

TACK COATS

ENVIRO-PREM applied to an existing pavement surface will eliminate slippage planes and provide a bond with the new asphalt lift. It will deliver a strong bond and it will not track under construction traffic. Spray rates range from 0.25 to 0.70 L/m² (0.05 to 0.15 gal/yd²).

DUST CONTROL

ENVIRO-PREM is ideal for spraying on low volume, unpaved roads as a means of dust control. This emulsion is usually diluted with water to further decrease its viscosity in order to enhance its penetration into the existing surface. This emulsion is sprayed in repeated light applications at a rate of 0.45 to 2.25 L/m² (0.1 to 0.5 gal/yd²), depending on the condition of the existing surface.

PACKAGING, STORAGE AND HANDLING

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

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 **ENVIRO-PREM** 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.



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