

CATIONIC EMULSION®

(CRS, CMS & CSS)
Rapid, Medium & Slow Setting Cationic Emulsions

DESCRIPTION

Rapid, Medium & slow setting, cationic Emulsified Asphalts for use in the construction and maintenance of pavement.

USES

CRS grades are typically used for tack coat and sealcoat. CMS grades are used for cold mix, crack treatment and tack coat. CSS grades are typically used in slurry seal applications. These grades are used in the construction and maintenance of the pavements as designated in ASTM D 2397.

FEATURES

- CRS grades are ideal for tack coat layer
- CMS Grades are ideal for cold mix and crack treatment.
- CSS grades are ideal for Slurry seal, tack coat, prime coat and fog seal.
- Nonflammable
- Easy to apply since the product is emulsified and can be used without heating.
- Conforms to ASTM D 2397

INSTRUCTION FOR APPLICATION

Surface Preparation : the area to be sealed and must be dried. It must be swept with a power broom to remove dirt, sand, gravel and other debris.

Application : Apply the asphalt emulsion to the clean surface with the distributor spray bar. application temperature should be between 20 to 60 deg, CRS grades should not be diluted with water. CMS and CSS grades can be diluted with water, if needed, for example in fog seal application. However, water should be added slowly to the emulsion.

Diluting emulsion by adding it to a tank of water should never be done. Traffic must be controlled according to a traffic control plan and kept off the sealed area until the emulsion breaks or until it does not adhere to vehicle tire. More details about application are available upon request.

CLEANING

Emulsions can be removed from equipment and tools with water when they're wet. When dried, it can be removed by any suitable solvent such as gasoline or kerosene.

COVERAGE

Depends on the surface treatment technique selected.

HEALTH & SAFETY

Workers should Wear protective masks, Gloves and goggles during application.

PRECAUTIONS

No special precautions are needed since these are water-based, nonflammable materials.

PACKING

Supplied in bulk, 180 kg Drums, 15 kg pails. Other weights are available upon request.

STORAGE

Store in a dry and shaded area in original packing.



The information given in this data sheets is the average of test of various samples conducted under lab conditions.
*In accordance to ASTM and UEATc Standards results are subjected to 5 to 20% tolerance.

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TECHNICAL DATA

Properties	CRS		CMS		CSS		De
	Min	Max	Min	Max	Min	Max	
Saybolt Furol Viscosity of 25 deg C	-	-	-	-	20	100	ASTM D 244, D88
Saybolt Furol Viscosity of 50 deg C	20	100	50	450	-	-	ASTM D 244, D88
Storage stability test, 24 Hrs, %	-	1	-	1	-	1	ASTM D 244
Classification Test	PASS		PASS				ASTM D 244
Coating Ability and Water Resistance	-	-	GOOD	GOOD	-	-	ASTM D 244
Partial charge test	POSITIVE		POSITIVE		POSITIVE		ASTM D 244
Cement Mixing test, %	-	-	-	-	-	2.0	ASTM D 244
Sieve test, %	-	0.1	-	0.1	-	0.1	ASTM D 244
Oil Distillation, Distillate bgy Volume of Emulsion, %	-	3	-	12	-	-	ASTM D 244
Residue by Distillation, %	60	-	65	-	57	-	ASTM D 244
Test on residue from Distillation							
Penetration at 25 deg C, 0.1mm	100	250	40	90	40	90	ASTM D 5, ASTM D 113, ASTM D 2042
Ductility at 25 DegC, Cm	40	-	40	-	40	-	
Solunility in trichloroethylene, %	97.5	-	97.5	-	97.5	-	

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Note: The technical data provided reflects typical properties based on laboratory tests and practical experience, subject to UEAtc tolerance levels. While we cannot guarantee performance under all conditions, further details are available upon request, with a standard variation of up to 20%.



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