

Lake Asphalt of Trinidad & Tobago (1978) Limited has been involved in the processing of Trinidad Lake Asphalt (TLA) mined from the world famous, natural wonder "Pitch Lake" for the past 100 years. Located in Brighton, La Brea, the company has been exporting TLA a natural asphalt throughout the Caribbean and globally to customers on every continent.

The Company has emerged as a true pioneer in the region with the supply and manufacture of Cationic Bitumen Emulsions which compliment its product range. This pioneering feat is made possible with the acquisition of a state of the art SEP Continuous Inline 12 metric ton per hour plant, backed by the technology of a world leader in the business, Akzo Nobel.

The plant is fully automated producing materials of superior quality and high performance. The engineering and production staff are experienced and well trained, having received extensive overseas training on the operations of the plant and the manufacture of the emulsified bituminous products.

As outlined in our product slate the plant has the capacity to manufacture a wide range of Bitumen Emulsions which are used for road surfacing and maintenance, among other purposes. This venture is a tangible sign of our commitment towards providing premier quality surfacing materials to our ever expanding cadre of customers globally.

A NATURAL WONDER WORKING FOR YOU



LAKE ASPHALT
OF TRINIDAD AND TOBAGO (1978) LIMITED

CATIONIC BITUMEN EMULSIONS

**SUPERIOR QUALITY
AND PERFORMANCE**

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PAVING THE WAY THROUGHOUT THE WORLD.

State Of The Art
Production Plant

PLC Controlled
Quality Assurance

Flexibility & Performance
Superior To Cutbacks

A Complete Range of Cationic Bitumen Emulsions

CATIONIC RAPID SETTING (CRS) – CRS-1, CRS-2

The rapid setting grades are designed to react quickly with aggregate and revert from the emulsion state to asphalt. They are used primarily for spray applications such as aggregate (chip) seals, sand seals, surface treatments and asphalt penetration macadam. CRS-2 grades have a higher viscosity to minimize potential for runoff.

CATIONIC MEDIUM SETTING (CMS) – CMS-2

The medium setting grades are designed for mixing with coarse aggregate, as these grades do not break immediately upon contact with aggregate. CMS mixes possess some measure of workability and have high viscosities to prevent runoff. These are generally used for cold mix applications and mixed-in-place operations.

CATIONIC SLOW SETTING (CSS) – CSS-1, CSS-1h

The slow setting grades are designed for maximum mixing stability. They are used with high fines content and dense-graded aggregates. All slow setting grades have low viscosities that can be further reduced by adding water. It can then be used for tack coats, prime coats, fog seals and dust palliative. CSS-1h has a stiffer/harder emulsion residue.

Lake Asphalt produces Cationic Bitumen Emulsions according to American Society for Testing and Materials (ASTM) Cationic Emulsified Asphalt specifications ASTM D2397.

ADVANTAGES OF LAKE ASPHALT'S CATIONIC BITUMEN EMULSIONS

- ◆ Environmentally friendly and easy to use due to relatively low viscosity.
- ◆ Applied in ambient conditions without the need for expensive heating equipment (energy saving).
- ◆ May be used with cold as well as heated aggregates and with damp or dry aggregate, unlike cutback asphalts.
- ◆ Low cost, road servicing alternative to cutback, superior to comparable products.
- ◆ Easy and ready to use, already liquefied with superior performance to Cutbacks, without the shortcomings.
- ◆ Quality adhesion and durability are equivalent to and in most cases superior to other Cold mix applications.
- ◆ Specific Emulsions to suit your aggregate type and job requirements

Lake Asphalt produces Cationic Bitumen Emulsions in a state of the art continuous plant with a capacity of twelve (12) metric tons per hour, backed by technology of a world leader in the business, Akzo Nobel.

GENERAL USES OF EMULSIFIED ASPHALT

NOTE: Only those grades of emulsified asphalt in general use have been indicated. It is possible that under variations of aggregates, climatic conditions, or both, additional selections may be appropriate. Where the use of emulsified asphalt for applications other than those listed in the table are required, Lake Asphalt be consulted.

Type of Construction	ASTM D2397; AASHTO M208				
	CRS-1	CRS-2	CMS-2	CSS-1	CSS-1h
Asphalt Aggregate Mixtures:					
For pavement bases and surfaces:					
Plant mix (hot)	...	...	...	...	...
Plant mix (cold)					
Open-graded aggregate	...	...	X	...	...
Dense-graded aggregate	...	...	...	X	X
Sand	...	...	...	X	X
Mixed-in-place:					
Open-graded aggregate	...	...	X	...	...
Dense-graded aggregate	...	...	...	X	X
Sand	...	...	...	X	X
Sandy Soil	...	...	...	X	X
Slurry seal	...	...	...	X	X
Asphalt-aggregate applications:					
Treatments and seals:					
Single surface treatments (chip Seal)	X	X	...	...	...
Multiple surface treatment	X	X	...	...	...
Sand seal	X	X	...	...	...
Asphalt applications:					
Fog seal	...	...	...	X ^C	X ^C
Prime coat-penetrable surface	...	...	...	X ^D	X ^D
Tack coat	...	...	...	X ^C	X ^C
Dust binder	...	...	...	X ^C	X ^C
Mulch treatment	...	...	...	X ^C	X ^C
Crack filler	...	...	...	X	X
Maintenance mix					
Immediate use	...	...	...	X	X

^CDiluted with water; ^D Mixed-in prime only

