COLMAT L™

Elastomer Modified Microsurfacing Emulsion

Product Data Sheet 2014/04

DESCRIPTION

The **COLMAT L™** microsurfacing system is a specially formulated quick set cationic microsurfacing bitumen emulsion modified with SBR latex for mixing with selected continuously graded crushed aggregate, cement and water by means of a purposely design slurry machine.

USES

The **COLMAT L™** microsurfacing system is a cost effective remedial treatment for improving the road profile and skid resistance of an existing blacktop surface or concrete pavement. Can be applied in a single pass between 5 - 20 mm on urban streets, highways and airports carrying a wide range of traffic.

PROPERTIES

The functional properties of the **COLMAT L™** microsurfacing system are:

- Enhanced surface roughness and micro texture via the aggregate grading used.
- Limiting the ingress of water into the underlying layers by filling the voids of the existing surface.
- Improved durability by preventing further oxidisation of the aged binder in the existing surface.

The SBR latex in the **COLMAT L™** improves the temperature susceptibility of the binder and the binder/aggregate adhesion, which reduces the risk of aggregate loss, especially in the early life of the seal.

SPECIFICATIONS

COLMAT L™ emulsion is manufactured from a 70/100 penetration grade bitumen and conforms to the AC-E1 specification for Polymer Modified Emulsions:

EMULSION PROPERTIES		REQUIREMENT		TEST METHOD
		Min	Max	
Binder content, % m/m		63	65	MB-22
Residue on sieving, g/100 ml	710 µm	-	0.1	MB-23
	150 µm	-	0.5	
Particle charge		Positive		MB-24
Sedimentation after 60 rotations		Nil		SANS 4001-BT3
RECOVERED BINDER PROPERTIES				
Softening point, ºC		≥ 48	-	MB-17
Elastic recovery @ 15ºC		≥ 50	-	MB-4

DIRECTIONS FOR USE

1. Localised cracks must be sealed and fatigue cracks repaired prior to placing of microsurfacing prepared with **COLMAT L™**.
   Microsurfacing will not prevent cracks from reappearing.
2. No tack coat is needed and neither is pneumatic rolling required.
3. The typical emulsion content is 180 litres of **COLMAT L™** per m^3 of aggregate for crusher dust that conforms to the requirements of the Colto (Fine slurry) Medium grading specification
4. No lifting of kerbs or manholes required.
5. **COLMAT L™** is designed to be opened to traffic within 90 minutes of placing during normal weather conditions with ambient temperatures not exceeding 35°C, providing that the reactivity of the aggregate is favourable.
6. Suitability of the crusher dust must be determined by a Colas laboratory.

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