



COLPAVE™

Elastomer Modified Microsurfacing Emulsion

Product Data Sheet 2014/04

DESCRIPTION

COLPAVE™ is a specially formulated medium set cationic microsurfacing bitumen emulsion modified with SBR latex for mixing with selected continuously graded crushed aggregate, cement and water.

USES

COLPAVE™ emulsion is specially formulated for mixing in a concrete mixer and applying by hand. These mixes are suitable for resealing parking areas, sidewalks and intersections. Can also be used for manufacturing cold pothole patching mixes and as a tack coat for geotextiles.

PROPERTIES

COLPAVE™ emulsion has an extended mixing time of approximately four minutes, allowing the preparation of small sized mixes that can be placed before the mix sets. The SBR latex in the **COLPAVE™** improves the temperature susceptibility of the binder as well as the binder/aggregate adhesion, which reduces the risk of aggregate loss, especially during the early life of the seal.

SPECIFICATIONS

COLPAVE™ 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	-	MB-23
	150 µm	-	
Particle charge	Positive		MB-24
Sedimentation after 60 rotations	Nil		SANS 4001-BT3
RECOVERED BINDER PROPERTIES			
Softening point, °C	≥ 48	-	MB-17
Elastic recovery @ 15°C	≥ 50	-	MB-4

DIRECTIONS FOR USE

1. Localised cracks must be sealed and fatigue cracks repaired prior to placing of microsurfacing prepared with **COLPAVE™**.
Microsurfacing will not prevent cracks from reappearing.
2. No tack coat is needed and neither is pneumatic rolling required.
3. The mix is easily applied with rubber squeegees and textured with a damp hessian drag before it sets.
4. The typical emulsion content is 200 litres of **COLPAVE™** per m³ of aggregate for crusher dust that conforms to the requirements of the Colto (Fine slurry) Medium grading specification.
5. Microsurfacing prepared with **COLPAVE™** 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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