

**CRS 60****Cationic Spray Grade Bitumen Emulsion**

Product Data Sheet 2014/04

**DESCRIPTION**

**CRS 60** is a low viscosity cationic rapid-set bitumen emulsion.

**USES**

**CRS 60** is used mainly as a hand applied tack coat or penetration spray in the construction of single, double or Cape seals. It is favoured over hot binders when resealing roads in cold/wet climates or small areas which require hand application. It is also used in new construction where traffic accommodation is not a problem.

**PROPERTIES**

**CRS 60** has a low viscosity, which improves the flow of the binder allowing it to readily wet aggregates. The positive electrical charges of the emulsifier on the bitumen droplets are attracted to the free negative ions of the aggregates resulting in a chemical break, thus improving the binder adhesion to the stone.

**CRS 60** can also be diluted with water and applied as a cover spray on a newly constructed seal.

**SPECIFICATIONS**

**CRS 60** conforms to SANS 4001-BT4 specification for cationic bitumen road emulsions.

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	Min	Max	
Binder content, % m/m	60	63	ASTM D244
Viscosity @ 50°C, SFs	20	50	ASTM D244
Residue on sieving, g/100 ml	-	0.25	SANS 4001-BT4
Fluxing agent content, % m/m of binder	-	5	ASTM D244
Particle charge	Positive		SANS 4001-BT4
Binder deposit on cathode after 30 min, g	1.0	-	SANS 4001-BT4
Sedimentation after 60 rotations	Nil		SANS 4001-BT4

**DIRECTIONS FOR USE**

1. No precoating of stone necessary. Can be used with slightly damp/dusty stone.
2. Apply with a hand sprayer at ambient temperature or conventional distributor at a binder spray temperature of 60°C. The minimum road surface temperature should be 10°C and rising.
3. No heating of the product during storage; only prior to application. Product should be circulated and agitated from time to time for short periods only. Can be stored for long periods at ambient temperature without risk of settlement.
4. Open to traffic once sufficient cohesion development has occurred between binder and stone.
5. If diluting with water, first check the compatibility of the water with the emulsion.

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