

**CRS 70****Cationic Spray Grade Bitumen Emulsion**

Product Data Sheet 2014/04

DESCRIPTION

CRS 70 is a high viscosity cationic rapid set bitumen emulsion.

USES

CRS 70 is used mainly as a 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 in new construction where traffic accommodation is not a problem.

PROPERTIES

Although **CRS 70** is a high binder content emulsion, its viscosity is sufficient for the binder to readily wet aggregates without the risk of run-off on steep inclines. 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.

SPECIFICATIONS

CRS 70 conforms to SANS 4001-BT4 specification for cationic bitumen road emulsions.

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	Min	Max	
Binder content, % m/m	70	73	ASTM D244
Viscosity @ 50°C, SFs	51	400	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	51	-	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 conventional distributor at a binder spray temperature of 70°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.
4. Open to traffic once sufficient cohesion development has occurred between binder and stone.

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