

Techno Cationic Bitumen Emulsion

Physical and Chemical Requirements of Bitumen Emulsion (Cationic Type)

SR. NO.	CHARACTERISTICS	RS-1	RS-2	MS	SS-1	SS-2	Method of Test, Ref to	
							IS No.	Annex of this standard
i	Residue on 600 micron IS Sieve, percent by mass, Max	0.05	0.05	0.05	0.05	0.05	-	B
ii	Viscosity by saybolt furol viscometer, seconds: 1) At 25° C 2) At 50° C	- 20 - 100	- 100 - 300	- 50 - 300	200 - 100 -	30 - 150 -	3117 -	-
iii	Coagulation of emulsion at low temperature	Nil	Nil	Nil	Nil	Nil	-	C
iv	Storage stability after 24 h, percent, Max	2	1	1	2	2	-	D
v	Particle charge	Positive	Positive	Positive	Weak Positive	Positive	-	E
vi	Coating ability and water resistance: 1) Coating, dry aggregate 2) Coating, after spraying 3) Coating, wet aggregate 4) Coating, after spraying	- - - -	- - - -	Good Fair Fair Fair	- - - -	- - - -	- - - -	F
vii	Stability to mixing with cement (percentage coagulation), Max	-	-	-	2	2	-	G
viii	Miscibility with water	No Coagulation	No Coagulation	No Coagulation	-	No Coagulation	-	H
ix	Tests on residue : 1. Residue by evaporation, Percent, min 2. Penetration 25° C / 100g / 5 sec 3. Ductility of 27° C / cm 4. Solubility in trichloroethylene, percent by mass, Min	60 80 - 150 50 98	67 80 - 150 50 98	65 60 - 150 50 98	50 60 - 350 50 98	60 60 - 120 50 98	- 1203 1208 1216	J - - -
x	Distillation in percent, by volume at : 1. 190° C 2. 225° C 3. 260° C 4. 315° C	- - - -	- - - -	- - - -	20 - 500 30 - 75 40 - 90 60 - 100	- - - -	- - - -	- - - -
xi	Water content, percent by mass	-	-	-	20	-	-	-