Bitumen Emulsion (Catonic Type) – Second Revision

IS 8887:2018

Characteristics	Grades of Emulsion						Method of Test, Ref to	
	RS-1	RS-2	MS	SS-1	SS-2	1:No.	Annex of this standard	
Residue on 600 micron IS Sieve, percent by mass, Max	0.05	0.05	0.05	0.05	0.05	-	В	
Viscosity by saybolt furol viscometer, seconds:						3117	-	
1) At 25 Deg. C	-	-	-	20-100	30-150			
2) At 50 Deg. C	20-100	100-300	50-300	-	-			
Coagulation of emulsion at low temperature C	Nil	Nil	Nil	Nil	Nil	-	С	
Storage stability after 24 h, percent, Max	2	1	1	2	2	-	D	
Particle charge	Positive	Positive	Positive	Weak Positive	Positive	-	Е	
Coating ability and water resistance:								
Coating, dry aggregate	-	-	Good	-	-	-	F	
Coating, after spraying	-	-	Fair	-	-			
Coating, wet aggregate	-	-	Fair	-	-			
Coating, after spraying	-	-	Fair	-	-			
Stability to mixing with cement (percentage coagulation), Max	-	-	-	2	2	-	G	
Miscibility with water	No co- agulation	No co- agulation	No co- agulation	-	No co- agulation		Н	

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Tests on residue:								
Residue by evaporation, percent, Min.	60	67	65	50	60	-	J	
2. Penetration 25 Deg. C/100g/5 sec	80-150	80-150	60-150	60-350	60-120	1203	-	
3. Ductility 27 Deg. C/cm, Min.	50	50	50	50	50	1208	-	
4. Solubility : In trichloro-ethylene, Percent by mass, Min.	98	98	98	98	98	1216	-	
Distillation in percent, by volume at								
1. 190 Deg. C	ı	-	-	20-55	•	-	-	
2. 225 Deg. C	-	-	-	30-75	•	-	-	
3. 260 Deg. C	-	-	-	40-90	-	-	-	
4. 315 Deg. C	-	-	-	60-100	-	-	-	
Water content, percent by mass, Max.	-	-	-	20	-	-	-	

Note 1 : "This requirement shall be applicable only under situations where the ambient temperatures is below 15 Deg. C.

RS-1: Rapid Setting – 1
RS-2: Rapid Setting – 2
MS: Medium Setting
SS-1: Slow Setting – 1
SS-2: Slow Setting - 2