

Laboratory Laboratory Division, Hindustan Colas Private Limited, Irungattukottai,
Plot A9, SIPCOT Industrial Park, Irungattukottai, Sriperumbadur,
Kancheepuram-District, Taiml Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8119

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Validity 26.11.2018 to 25.11.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Bitumen Emulsion	Storage stability	IS 8887 (Annexure D)	0.1 % to 2 %
		Particle Charge	IS 8887 (Annexure E)	Qualitative
		Residue on 600 µm	IS 8887 (Annexure B)	0.001 % to 0.1 %
		Viscosity by Saybolt Furol Viscometerat @ 50 °C	IS 3117	20 s to 300 s
		Coagulation at Low Temperature	IS 8887 (Annexure C)	Qualitative
		Miscibility with Water	IS 8887 (Annexure H)	Qualitative
		Viscosity by Saybolt Furol Viscometer at 25 °C	IS 3117	20 s to 100 s
		Distillation	IS 1213	0.1 % to 100 %
		Stability to mixing with cement	IS 8887 (Annexure G)	0.01 % to 4 %
		Coating Ability	IS 8887 (Annexure F)	Qualitative
		Test on residue–Solubility in Trichloroethylene	IS 1216	90 % to 100 %
		Test on residue–Residue by Evaporation	IS 8887 (Annexure J)	1 % to 90 %
		Test on residue–Penetration	IS 1203	10 mm to 300 mm (1/10 th)
Test on residue–Ductility	IS 1208	1 cm to 100 cm		
2.	Modified Bitumen	Softening Point	IS 1205	40 °C to 100 °C
		Penetration	IS 1203	10 to 200
		Absolute Viscosity @ 60 °C	IS 1206 (Part 2)	800 Poise to 4800 Poise
		Kinematic Viscosity @ 135 °C	IS 1206 (Part 3)	200 cSt to 900 cSt

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Laboratory **Laboratory Division, Hindustan Colas Private Limited, Irungattukottai,
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		Solubility in Trichloroethylene	IS 1216	90 % to 100 %
		Ductility	IS 1208	50 cm to 100 cm
		Flash Point & Fire Point	IS 1448 (Part 69)	220 °C to 350 °C
3.	Modified Bitumen	Penetration	IS 1203	10 mm to 100 mm (1/10 th)
		Softening Point	IS 1205	40 °C to 100 °C
		Viscosity @ 150 °C	IS 1206 (Part1)	0 to 20 poise
		Flash point	IS 1448 (Part 69)	200 °C to 350 °C
		Elastic recovery @ 15 °C	IS 15462 (Annexure A)	20 % to 100 %
		Separation difference in softening point	IS 15462 (Annexure B)	1 °C to 5 °C
		Test on residue (TFOT) Loss in mass	IS 9382	0.02 % to 1 %
		Test on residue (TFOT) increase in softening point	IS 1205	1 °C to 10 °C
		Test on residue (TFOT) Reduction in penetration	IS 1203	1 % to 35 %
		Test Residue (TFOT) Elastic recovery @ 25 °C	IS 15462 (Annexure A)	20 % to 100 %