

Laboratory Laboratory Division, Hindustan Colas Private Limited, Uluberia
Industrial Growth Center, Birshibpur, Howrah, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7760

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Validity 30.08.2018 to 29.08.2020

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.	Paving Bitumen	Softening Point	IS 1205	40 °C to 100 °C
		Penetration	IS 1203	10 mm to 100 mm (1/10 th)
		Absolute Viscosity at 60°C	IS 1206 (Part 2)	300 Poise to 4800 Poise
		Kinematic Viscosity at 135°C	IS 1206 (Part 3)	200 cSt to 900 cSt
		Solubility in Trichloroethylene	IS 1216	90 % to 100 %
		Flash Point	IS 1448 (Part 69)	200 °C to 350 °C
2.	Modified Bitumen	Penetration	IS 1203	10 mm to 100 mm (1/10 th)
		Softening Point	IS 1205	40 °C to 100 °C
		Viscosity at 150 °C	IS 1206 (Part 1)	1 Poise to 20 Poise
		Flash Point	IS 1448 (Part 69)	200 °C to 350 °C
		Elastic Recovery at 15 °C	IS 15462 (Annexure A)	20 % to 100 %
		Separation, difference in the 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 on Residue (TFOT) Elastic Recovery at 25 °C	IS 15462 (Annexure A)	20 % to 100 %
3.	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	IS 3117	20 s to 300 s

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Viscometer at 25°C		
		Viscosity by Saybolt Furol Viscometer at 50°C	IS 3117	20 s to 300 s
		Water Content	IS 1211	0.1 % to 20 %
		Coagulation at Low Temperature	IS 8887 (Annexure C)	Qualitative
		Miscibility with water	IS 8887 (Annexure H)	Qualitative
		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
		Residue Solubility in Trichloroethylene	IS 1216	90 % to 100 %
		Residue by Evaporation	IS 8887 (Annexure J)	1 % to 90 %
		Residue Penetration	IS 1203	10 mm to 300 mm (1/10 th)
		Residue Ductility	IS 1208	1 cm to 100 cm

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