



**Metro
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Ltd.**

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File No: 5114

October 5, 2004

INTEGRATED PAVING CONCEPTS INC.
17957-55TH AVENUE
SURREY, BC V3S 6C4

Certificate of Analysis
Surface Friction Properties: StreetBond SP150E Coating

Date of Installation of Coating: August 2001 **Test Date :** September 26, 2004
Test Site: StreetPrint crosswalk right lane onto Pinetree Way from North Access Road at Coquitlam Mall, Coquitlam, B.C., Canada

Test Procedure: Metro Testing Laboratories Ltd. performed friction testing using the British Pendulum Tester under wet conditions and in accordance with ASTM E-303, *Standard Test Method Measuring Surface Friction Properties Using the British Pendulum Tester.*

Tests were carried out on the StreetBond SP150E coated crosswalk in the right wheel path and adjacent to the curb where almost no traffic passes over the StreetBond SP150E coating, as well as on the adjacent uncoated asphalt, also in the right wheel path and adjacent to curb. Five tests were carried out at each of the four locations at each test site. Tests consisted of five swings of the pendulum, discarding the first reading. The following table presents the results of the tests:

Test Location: Right Wheel Path, Coated SP150E					
Position	1	2	3	4	5
Last four swings	65	67	65	63	64
	65	65	65	64	62
	64	65	66	65	63
	63	66	65	64	61
Mean BPN = 64 (SD = 1.4)					

Test Location: Adjacent to Curb, Coated SP150E					
Position	1	2	3	4	5
Last four swings	70	73	69	75	70
	70	74	73	75	73
	72	74	73	76	74
	69	73	73	74	70
Mean BPN = 73 (SD = 2.1)					



Surface Friction Analysis: StreetBond SP150E

Test Location: Right Wheel Path, Uncoated Asphalt					
Position	1	2	3	4	5
Last four swings	55	59	55	60	60
	58	60	56	59	59
	55	55	55	60	59
	55	56	55	60	55
Mean BPN = 57 (SD = 2.2)					

Test Location: Adjacent to Curb, Uncoated Asphalt					
Position	1	2	3	4	5
Last four swings	56	65	64	60	55
	64	65	63	55	53
	60	58	62	57	56
	60	65	64	56	55
Mean BPN = 60 (SD = 4.1)					

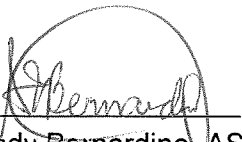
Testing Equipment		Pavement Condition	
Name:	British Pendulum	Surface Temperature	69°F
Model:	S885, ID STD - 085	Level of Traffic	Light
Serial No.:	A9546	Surface Texture	Rough
Manufacturer:	Wessex		
Date Calibrated	May04, 2004		
Rubber Slider	British Pendulum (Jan 1999)		

Summary of results:

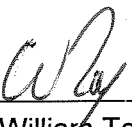
Wheel Path: StreetBond SP150E BPN = 64
Uncoated Asphalt BPN = 57

Adjacent to Curb: StreetBond SP150E BPN = 73
Uncoated Asphalt BPN = 60

Per:


Andy Bernardino, ASCT
Laboratory Supervisor

Reviewed by:


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