

Project Information

Project Name	Medium Density and High Density				
Froject Name	LA Abrasion Infill Durability Comparison				
	Greenplay Sports				
Client Information	6 Hawthorne Avenue				
	Merrick, NY 11566				
Date	March 17, 2017				
Report Status	Final				
Job No.	91949/2039				
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Cliecked by	Laboratory Director				

Notes:

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Summary

Sports Labs USA was commissioned to perform a modified LA Abrasion test to show the different amount of breakdown when a medium and high density cork are compared. A medium and high density sample where both subject to 1000 revolutions within the LA Abrasion machine. Eight charges where used to fulfill the intended abrasion of material.

Gradations were performed to the EN 933-1 Standard.

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INFORMATION, ADVICE & KNOW-HOW: FROM THE SYNTHETIC SPORTS SURFACE EXPERTS















Infill Description

	Characteristic	Results		Characteristic	Results
Medium Density Pre- Abrasion	Particle Size (mm)	1 - 2.5	Medium	Particle Size (mm)	.8 - 2.5
	Particle Shape	Irregular	Density Post	Particle Shape	Irregular
	Bulk Density (kg/m3)	129	Abrasion	Bulk Density (kg/m3)	134



INFORMATION, ADVICE & KNOW-HOW: FROM THE SYNTHETIC SPORTS SURFACE EXPERTS







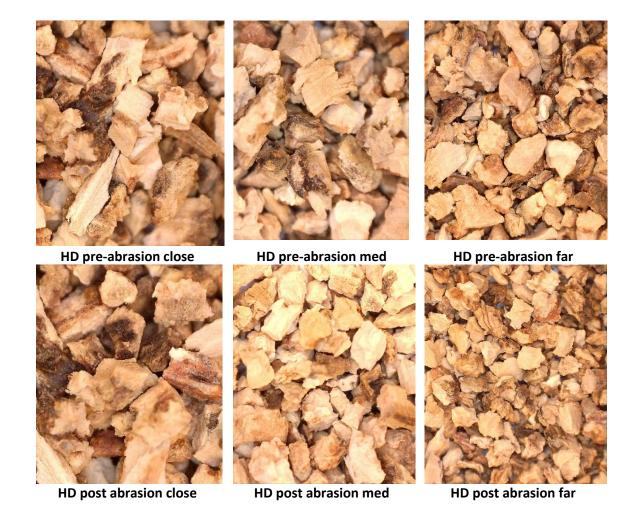








	Characteristic	Results		Characteristic	Results
High Density Pre- Abrasion	Particle Size (mm)	.8-2.5	High	Particle Size (mm)	.8-2.0
	Particle Shape	Irregular	Density Post	Particle Shape	Irregular
	Bulk Density (kg/m3)	200	Abrasion	Bulk Density (kg/m3)	265



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Infill Comparison

Particle Size Distribution for Medium Density							
Particle Size Distri	Particle Size Distribution Pre-Abrasion Allowable Variation				Particle Size Distribution Post Abrasion		
Sieve Size (mm)	Passing (%)	Variation	Allowable	Pass / Fail	Sieve Size (mm)	Passing (%)	
4.000	100.000	0.0	< ± 10%	Pass	4.000	100.0	
3.350	100.000	0.0	< ± 10%	Pass	3.350	100.0	
2.50	99.800	0.0	< ± 10%	Pass	2.50	99.5	
2.00	81.300	8.1	< ± 10%	Pass	2.00	87.2	
1.60	40.600	9.5	< ± 10%	Pass	1.60	45.9	
1.25	5.600	6.6	< ± 10%	Pass	1.25	15.1	
1.00	0.500	2.3	< ± 10%	Pass	1.00	4.6	
0.80	0.000	1.2	< ± 10%	Pass	0.80	2.5	
0.63	0.000	0.9	< ± 10%	Pass	0.63	1.9	
0.50	0.000	0.8	< ± 10%	Pass	0.50	1.4	
0.315	0.000	0.3	< ± 10%	Pass	0.315	0.8	
0.200	0.000	0.3	< ± 10%	Pass	0.200	0.0	





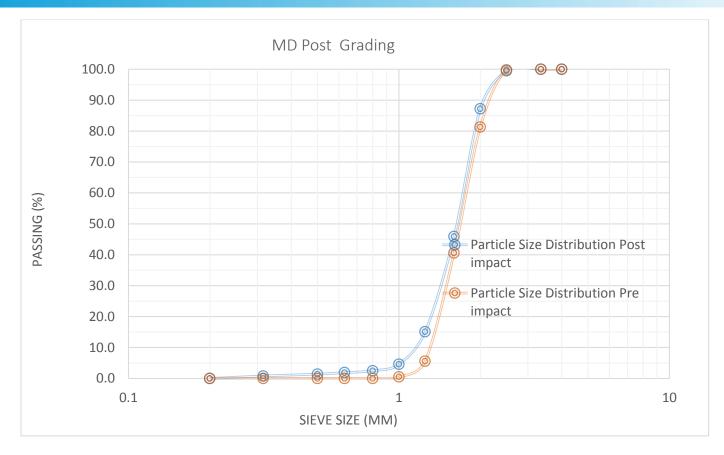


























Particle Size Distribution for High Density							
Particle Size Distri	Particle Size Distribution Pre-Abrasion Allowable Variation			n	Particle Size Distribution Post Abrasion		
Sieve Size (mm)	Passing (%)	Variation	Allowable	Pass / Fail	Sieve Size (mm)	Passing (%)	
4.000	100.000	0.0	< ± 10%	Pass	4.000	100.0	
3.350	100.000	0.0	< ± 10%	Pass	3.350	100.0	
2.50	99.200	0.5	< ± 10%	Pass	2.50	99.9	
2.00	83.300	10.5	< ± 10%	Fail	2.00	95.0	
1.60	52.700	18.7	< ± 10%	Fail	1.60	71.1	
1.25	21.400	15.1	< ± 10%	Fail	1.25	40.2	
1.00	3.700	4.0	< ± 10%	Fail	1.00	17.0	
0.80	0.400	1.1	< ± 10%	Fail	0.80	11.2	
0.63	0.100	1.0	< ± 10%	Pass	0.63	9.6	
0.50	0.100	0.8	< ± 10%	Pass	0.50	7.9	
0.315	0.100	0.7	< ± 10%	Pass	0.315	4.6	
0.200	0.100	0.6	< ± 10%	Pass	0.200	1.8	





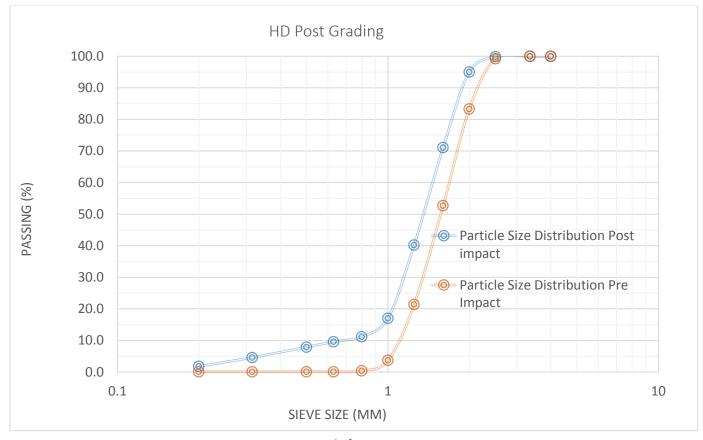












End of Report





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