

SmartwoodTM

DIAMOND TM Tech Coating System - QA Report			
Customer:	Smartwood Flooring		Report No. QAR-2013-017
Sample prep (date):			Account manager: Diego
Sample receipt (date):	9/10/2013		
Project:	Test the Smartwood Flooring Sample		
Sample:	Smooth Finish Spotted gum		
Layer construction (sample code & build-up/coating):			
	DIAMONDTMTech Finish	Film Wt (g/m2)	
WB Tannin Blocker primer	271.401.0000		
UV HPC Duro Sealer	661.499.2022	16.3	
UV Sealer -Semi Matte	661.403.3000		
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UV Sapphire TC - 10	651.410.1000		
QA-test results			
		Target	
Gloss grade 60° angle (ave ± stdev, 20 samples)		<input type="text"/>	<input type="text" value="10.6 +- 0.9"/>
Cross hatch & tape removal	ASTM D3359 (cross hatch/cross cut & tape)	<input type="text" value="≥4B"/>	<input type="text" value="5B"/>
Taber Abrasion	ASTM D4060 S33 cycles to IB S33 cycles to FB	<input type="text" value="≥ 500"/>	<input type="text" value="1100"/> <input type="text" value="1300"/>
Coefficient of Friction	ASTM D2394	<input type="text" value="≥0.45"/>	<input type="text" value="NA"/>
Steel-wool	Internal Test 1 kg weight, 50 cycles	Coarse Medium Fine <input type="text" value="Pass"/>	<input type="text" value="Pass"/>
Impact resistance	EN 438-2 (in N)	<input type="text" value="≥4N"/>	<input type="text" value="5N"/>
Linear Scratch & Elasticity Hamberger Plane	TF_01 (in N)	<input type="text" value="≥20N"/>	<input type="text" value="20 N"/>
Mini Martindale	Work Norm W-445 1.5 lbs, 320 grit, 100 cycles (0 is no scratch, 4 is severe scratch)	<input type="text"/>	<input type="text" value="1"/>
Tests conducted:	9/10/2013		Signature: David Wang
Remarks:	The flooring passes our QA test. The Taber is 1100 cycles, S-33 initial. Normally, we give 25 year residential and 5 year commercial warranty if Taber is above 500 cycles. This flooring has Taber number two times as much.		

