



Phoenix National Laboratories, Inc.
 2837 E. Chambers Street, Phoenix, AZ 85040
 P: 602.431.8887 · F: 602.431.8889 · www.pnltest.com

LABORATORY REPORT SEALANT TESTING

CLIENT		CLIENT PROJECT REF. NO.		CLIENT ORDER NO.	
D.S. Brown Company, The		Delastic LS		94174	
STATE		PROJECT DESCRIPTION			
N/A		ASTM Testing of 2-component, Self-leveling, Fast Curing Urethane Sealant			
MATERIAL SUBMITTED BY	DATE SUBMITTED	PNL PROJECT NO.	S.O. NO.	PNL LAB NO.	REPORT DATE
Client	09/03/2010	26-210326	001	ML810421	10/05/2010
SPECIFICATION		LOT NO.		SEALANT SAMPLE SIZE	
Table B312.2		10GO2-DS TesaPU		(3) Cans Part A, (3) Cans Part B	

SUMMARY OF RESULTS

STANDARD	DESCRIPTION	REQUIREMENT	TEST VALUE	RESULT
ASTM C661	INDENTATION HARDNESS, DUROMETER SHORE A			
	AGING TIME: 14 DAYS @ 24°C (75°F)	40, Maximum	31	PASS
	AGING TIME: 6 WEEKS @ 70°C (158°F)	40, Maximum	37	PASS
ASTM C639	FLOW PROPERTIES	Smooth level surface	SEE DATA	PASS
ASTM C679	TACK-FREE TIME	No material adhesion to film	SEE DATA	PASS
ASTM C794	ADHESION-IN-PEEL (1 Day Cure @ 24°C)			
	MORTAR SLABS	6.74 lbs (30 N) Minimum	16	PASS
	TESACRETE SLABS	6.74 lbs (30 N) Minimum	39	PASS
ASTM C1183	EXTRUSION RATE (at 30 Min.)	10 mL/min. Minimum	39.0	PASS
ASTM D412	TENSILE STRENGTH	Unknown	422	N/A
	ULTIMATE ELONGATION	Unknown	1600	N/A



PNL warrants that the above services and report were performed under the appropriate standard of care, including the skill and judgement that is reasonably expected from similarly situated technical personnel. No other warranty, guaranty, or representation, either expressed or implied is included or intended.

Alex Zuran

REVIEWED BY _____



LABORATORY REPORT SEALANT TESTING



Alexander Zuran III
Expires 09/30/2013

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D.S. Brown Company, The	Delastic LS	94174
PROJECT DESCRIPTION		
ASTM Testing of 2-component, Self-leveling, Fast Curing Urethane		
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ML810421	10GO2-DS	10/05/2010

SPECIFIC TEST DATA

INDENTATION HARDNESS, SHORE A - ASTM C 661 - 14 Days @ 24 °C (75 °F)								
1	2	3	4	5	6	AVG.	REQUIREMENT	RESULTS
30	31	32	31	32	31	31	40 Maximum	PASS
INDENTATION HARDNESS, SHORE A - ASTM C 661 - 6 Weeks @ 70 °C (158 °F)								
1	2	3	4	5	6	AVG.	REQUIREMENT	RESULTS
38	35	37	38	38	37	37	40 Maximum	PASS
FLOW PROPERTIES - ASTM C 639								
TYPE OF SEALANT			OBSERVATIONS				RESULT	
Type III - 2-Component, Self-Leveling			Sealant self-leveled in channel. Surface was smooth and free of bubbles.				PASS	
TACK-FREE TIME - ASTM C 679								
TEMPERATURE	HUMIDITY	TACK-FREE TIME			OBSERVATIONS		RESULT	
75 °F	48%	2.5 hours			Film pulled off clean		PASS	
ADHESION-IN-PEEL - ASTM C 794 - 1 Day Cure @ 24 °C (75 °F)								
SAMPLE TYPE	PEEL STRENGTH (lbs)					REQUIREMENT	RESULTS	
	Strip #1	Strip #2	Strip #3	Strip #4	AVG.			
Mortar Slabs	15	23	10	16	16.0	6.74 lbs, Minimum	PASS	
Tesacrete Slabs	44	45	35	33	39.3		PASS	
EXTRUSION RATE - ASTM C 1183								
SEALANT TYPE	Type M - Multicomponent			SEALANT SPECIFIC GRAVITY		1.046		
TIME FROM MIXING TO START OF TEST	SEALANT EXTRUDED IN 60 S (g)	TEMPERATURE OF SEALANT		EXTRUSION RATE (mL/min.)	REQUIREMENT	RESULT		
20 minutes	60.6	80 °F		57.95	10 mL/min. Min.	PASS		
30 minutes	40.8	80 °F		39.02	10 mL/min. Min.	PASS		



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TENSILE STRENGTH, ULTIMATE ELONGATION - ASTM D412 (METHOD A, SAMPLE DIE C)								
	WIDTH (in.)	THICK. (in.)	AREA (in. ²)	LOAD (lbs)	TENSILE STRENGTH	GAUGE LENGTH	ULTIMATE LENGTH	% ELONGATION
1	0.250	0.055	0.0138	5.8	422	1.0	16.8	1580
2	0.250	0.071	0.0178	7.4	417	1.0	17.0	1600
3	0.250	0.059	0.0148	6.4	434	1.0	17.2	1620
MEDIAN					422			1600
REQ.					Unknown			Unknown
RESULTS					N/A			N/A