



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 |



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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.

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| 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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SPECIFIC TEST DATA

| 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 |