



March 1, 2024

The Tile Shop  
Attn: Wayne Druckenmiller  
8515 Brown Street  
Ottawa Lake, Michigan 49267  
USA

Dear Wayne Druckenmiller,

International Performance Assurance Laboratories has tested the samples you submitted. Test report IPAL-0802-23 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

INTERNATIONAL PERFORMANCE ASSURANCE LABORATORIES,

Damon McDowell  
Laboratory Supervisor  
Enclosures



**IPAL TEST REPORT NUMBER:** IPAL-0802-23 **PAGE: 1 OF 3**

**TEST REQUESTED BY:** The Tile Shop

**TEST METHOD:** ANSI A118.11 Specifications for EGP (Exterior Glue Plywood) Modified Dry-set Mortar

This specification describes test methods and minimum requirements for EGP (Exterior Glue Plywood) modified dry-set mortars. The specification includes all the test methods and minimum requirements set forth by ANSI A118.4 with the exception of the four-week freeze/thaw shear strength tests. See ANSI A118.11 and A118.4 for full method descriptions.

**TEST SUBJECT MATERIAL:** Identified by client as: “Pro Bond”

**TEST DATE:** 12/6/2023 – 2/28/2024

**TEST PROCEDURE NOTES:**

- Sample prep\*: The mortar was mixed at a liquid to powder ratio of 25.5:100 parts by weight per the client’s instruction for A118.4 section 5.3. For the remaining test the mortar was mixed at 24:100 per the client’s instructions.
- All samples were set up and cured according to ANSI A118.11 and A118.4.

**TEST RESULTS:**

Test Designation	Test Description	Evaluation	ANSI Specification
A118.4 5.3	Open Time 20 min at 28 days	125 PSI	≥ 75 psi (0.5MPa)
	Extended Open Time (optional) 30 min at 28 days	50 PSI	≥75 psi (0.5MPa)
A118.4 6.0	Sag (optional - non-sagging mortars only)	0.00 in	≤ 0.02 in. (0.5mm)
<b>Glazed Wall Tile Shear Bonds</b>			
A118.4 7.1.2	7-day shears	576 PSI	> 300 PSI (2.07 MPa)
A118.4 7.1.3	7-day water immersion shears	490 PSI	> 200 PSI (1.38 MPa)
<b>Porcelain Mosaic Shear Bonds</b>			
A118.4 7.2.2	1-day shears	307 PSI	> 75 PSI (0.5 MPa)
A118.4 7.2.3	7-day shears	378 PSI	> 200 PSI (1.38 MPa)
A118.4 7.2.4	7-day water immersion shears	301 PSI	> 150 PSI (1.03 MPa)
A118.4 7.2.5	28-day shears	351 PSI	> 200 PSI (1.38 MPa)
A118.4 7.2.7	12-week shears	439 PSI	> 200 PSI (1.38 MPa)
<b>Quarry Tile Shear Bonds</b>			
A118.4 7.3.2	28-day shears	328 PSI	> 150 PSI (1.03 MPa)
<b>Quarry to Plywood Shear Bonds</b>			
A118.11 4.1.1	7-day shear strength	166 PSI	> 100 PSI (0.69 MPa)
A118.11 4.1.2	4-week shear strength	193 PSI	> 150 PSI (1.03 MPa)
A118.11 4.1.3	12-week shear strength	213 PSI	> 150 PSI (1.03 MPa)

\***COMMENTS:** ANSI A118.4 and A118.11 states that the same mix ratio shall be used for all tests. Different mix ratios were used per the client’s request.



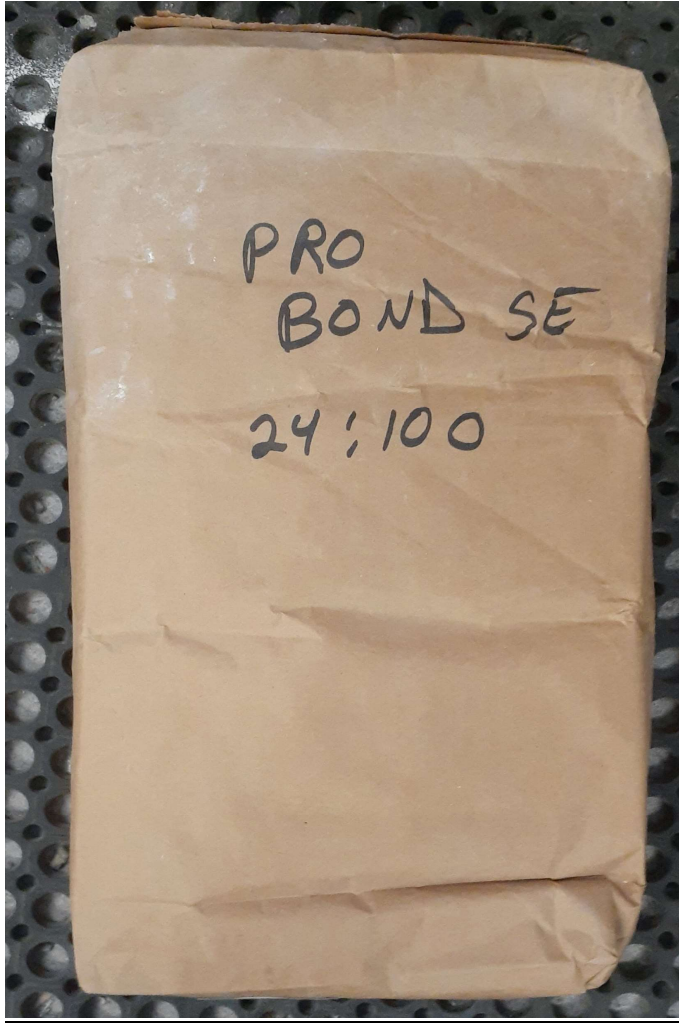


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**IMAGE OF PRODUCT TESTED:**





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3/1/2024

Damon McDowell  
Laboratory Supervisor

