



December 4, 2023

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

Dear Wayne Druckenmiller,

International Performance Assurance Laboratories has tested the samples you submitted. Test report IPAL-0694-23 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

INTERNATIONAL PERFORMANCE ASSURANCE LABORATORIES,

A handwritten signature in black ink, appearing to read 'D. J. M. McDowell', is positioned above the typed name.

Damon McDowell  
Laboratory Supervisor  
Enclosures



**IPAL TEST REPORT NUMBER:** IPAL-0694-23 **PAGE:** 1 OF 3

**TEST REQUESTED BY:** The Tile shop

**TEST METHOD:** ANSI A118.7 Specification for High Performance Cement Grouts for Tile Installation

This specification describes the test methods and minimum requirements for high performance cementitious grouts.

**TEST SUBJECT MATERIAL:** Identified by client as: “**Unsanded Excel Grout**”

**TEST DATE:** 10/31/2023 – 11/28/2023

**TEST PROCEDURE NOTES:**

- Sample prep: The grout was mixed at a liquid to powder ratio of 29.21:100 parts by weight per the client’s instruction.
- All samples were set up and cured according to ANSI A118.7.

**TEST RESULTS:**

Test Designation	Test Description	Evaluation	ANSI Specification	
			Sanded	Unsanded
3.3	Linear Shrinkage 27-Day	0.25%	< 0.20%	< 0.30%
3.4	Water Absorption 50% R.H. to Immersion	4.96%	< 5%	< 5%
3.5	Compressive Strength 1-Day 28-day	1416 psi 4315 psi	500 psi min. 3000 psi min.	500 psi min. 3000 psi min.
3.6	Tensile Strength 28-Day	624 psi	500 psi min.	500 psi min.
3.7	Flexural Strength 28-day	1104 psi	1000 psi min.	1000 psi min.

**COMMENTS:** None

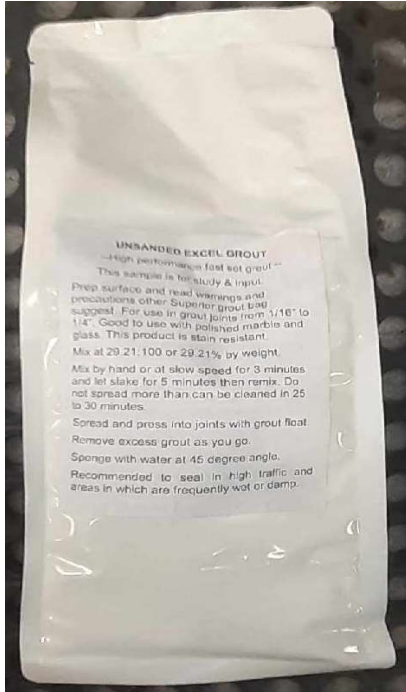


**IPAL TEST REPORT NUMBER:**

**IPAL-0694-23**

**PAGE: 2 OF 3**

**IMAGE OF PRODUCT TESTED:**





**IPAL TEST REPORT NUMBER:**

**IPAL-0694-23**

**PAGE: 3 OF 3**

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12/4/2023

Damon McDowell  
Laboratory Supervisor

