



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Winkler S.r.l.
Via Michelangelo Buonarroti 15
20093 Cologno Monzese Mi
Italy

Product Name: Wingrip® Bituminoso

Project No.: 1618T0003.01

Dates Tested: May 11th – Sept. 24th, 2021

Test Methods: ANSI A118.10

Results Summary: Passed Minimum Performance Criteria

Purpose: Evaluate the seam strength, breaking strength, dimensional stability, waterproofness, and bonded shear strength, of Winkler USA's Wingrip® Bituminoso liquid applied waterproof membrane in accordance with the *American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation A118.10*.

Test Methods: Testing was completed as described in American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation A118.10-2014. Test methods assigned or referenced include ASTM D751 Standard Test Methods for Coated Fabrics, ASTM D1204 Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature, ASTM D4068 Standard Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane, ASTM C482 Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste, and ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials.

Sampling: Sampling was conducted by Quality Control Consultants as stated on QCC report QCC-TSSR1-19 dated 06/10/2019. Signatures were verified upon arrival.

Product	Source	Date Received	Sampling
Wingrip® Bituminoso Wintechno Mat Bond Cement	Milan, Italy	May 11 th , 2021	QCC

Testing Location: Testing was conducted at PRI-CMT located in Tampa, FL. Calibration of testing instrumentation was performed by either an ISO accredited calibration laboratory or by a PRI-CMT representative in compliance with PRI-CMT In-House quality control program governed by ISO/IEC 17025-17.

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Test Results: Conditions at beginning of testing 22°C (73°F) with 50% Rh.

Table 1: ANSI A118.10

Property	Test Method	Result	Requirement
Material Property Requirements			
Fungi Resistance [Pass/Fail] Aspergillus Niger 14d @ 82.4-86°F & 90±5% RH	ANSI A118.10 Section 4.1	Pass ¹	The Membrane shall not support mold growth
Seam Strength (lb _f /in width) 5 specimens 2in x 8in; 18 wet mil (Applied in 2 coats 9 mil each w/ Wintechno Mat between) Test @ 73.4±3.6°F & 50±10%RH; Rate = 12in./min	ASTM D751 Procedure B	24	≥ 8
Breaking Strength (psi) 5 specimens 1in x 6in; 18 wet mil (Applied in 2 coats 9 mil each w/ Wintechno Mat between) Test @ 73.4±3.6°F & 50±10%RH; Rate = 12in./min	ASTM D751 Procedure B	1299	≥ 8
Dimensional Stability (%) 2 specimens 10in x 10in; 18 wet mil (Applied in 2 coats 9 mil each); Cond. 48h @ -15±2°F Test @ 73.4±3.6°F & 50±10%RH;	ASTM D1204	-0.1	≤ 0.7
Dimensional Stability (%) 2 specimens; 10in x 10in; 18 wet mil (Applied in 2 coats 9 mil each); Cond. 48h @ 158±2°F Test @ 73.4±3.6°F & 50±10%RH;	ASTM D1204	-0.6	≤ 0.7
Waterproofness (Pass/Fail) 3 specimens 3in. x 3in.; 18 wet mil (Applied in 2 coats 9 mil each); 55cm head of water for 48h; Test @ 73.4±3.6°F & 50±10%RH;	ASTM D4068	Pass	Specimen shall show no evidence of moisture penetration
Shear Strength (psi) 4 specimens per condition; 18 wet mil (Applied in 2 coats 9 mil each) Bonded area 4in. x 3-3/4in. Type X tile bonded w/ Winkler 2-part Bond Cement; Cure 7d @ 70-77°F & 50±5%RH; Rate = 200±20psi/min; Conditioned as follows:	ANSI 118.10 ASTM C482		
7-day shear strength		106	< 50
7-day water immersion shear strength		75	< 50
4-week shear strength		150	< 50
12-week shear strength		127	< 50
100-day water immersion shear strength		61	< 50

Note(s): 1- Results reported from MicroStar Lab Report R2021-524 dated 09/01/2021.

Continued on the next page...

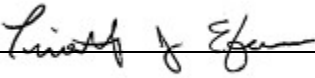
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Statement of Compliance:

The performance of these materials was determined in accordance with the **American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation A118.10-2014**. Upon completion of testing the specimens were compliant with the minimum performance criteria specified. This report does not constitute certification of this product which may only be granted by the certification program administrator.

ANSI A118.10 section 6.0 System Performance was omitted from this evaluation.

Signed: 
Timothy Efaw
Manager

Date: October 1st, 2021

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	10/01/2021	3	

End of Report

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