



# PRI Construction Materials Technologies LLC

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## Laboratory Test Report

**Report for:** Vito Mariano  
Basecrete Technologies  
7969 Moyer Ave  
Sarasota, FL 34240

**Product Name(s):** Basecrete

**Project No.:** 2436T0003

**Date(s) Tested:** Jul. 14-15, 2022

**Test Methods:** TAS 114-95 Appendix D  
ANSI/FM 4474(2011) Appendix B

**Results Summary:** See Results section for assembly details  
Assembly No. 1: -1,005psf  
Assembly No. 2: -1,005psf  
Assembly No. 3: -1,005psf

**Purpose:** Conduct simulated wind uplift pressure tests in accordance with **ANSI/FM 4474 Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures** and **Florida Building Code Test Protocols for the High Velocity Hurricane Zone (HVHZ) Testing Application Standard (TAS) No. 114.**

**Test Methods:** The *Uplift Resistance* was tested in accordance with ANSI/FM 4474 *Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures* (2011), Appendix B: *Simulated Wind Uplift Pull Test Procedure*, and The Florida Building Code Test Protocols for the High Velocity Hurricane Zone (HVHZ) Testing Application Standard (TAS) No. 114-95, Appendix D: *Test Procedure for Simulated Uplift Pressure Resistance of Adhered Roof System Assemblies*. The 2ft x 2ft test samples were bonded to CAT 22/32 PS 1-09 APA rated plywood sheathing for affixing to the uplift pull test apparatus.

**Sampling:** The following materials were received by PRI.

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
Basecrete Flexible Waterproofing Bondcoat	Sarasota, FL	Feb. 21, 2022	Basecrete
Basecrete Dry Mix Compound	Sarasota, FL	Jun. 6, 2022	Basecrete

All other materials were procured through local sources of distribution.

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The laboratory test results presented in this report are based on the material(s) supplied and tested. The results, and by extension any statements of conformity, opinions, or interpretations, apply the "simple acceptance" decision rule for measurement uncertainty accounting. This report is for the exclusive use of stated client. Only the client is authorized to permit copying or distribution of this report and then only in its entirety. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

**Results:** Testing was performed at standard laboratory conditions. Test pressures were increased by 15 psf increments and maintained at each interval for 1 minute. Photographs after testing are provided in Appendix A.

**Table 1. Uplift Results**

Assembly No.	Test Specimen Details			Results					
	Component	Description	Attachment Detail	Specimen No.	Passing Load	Failing Load	Time of Failure	Failure Mode	Average Uplift <sup>1</sup>
1	Deck	Concrete	-	1	4,020lbf	N/A	N/A	Equip. Max	1,005psf
	Waterproofing	Basecrete	Prepared by combining Basecrete Flexible Waterproofing Bondocat and Dry Mix Compound; Applied in two 1/16" thick coats for a total of 1/8" thickness	2	4,020lbf	N/A	N/A	Equip. Max	
	Overburden	12" x 12" x 2" Concrete Pavers	ASTM C 270, Type M mortar applied with a 1/2" x 1/2" x 1/2" notched trowel	3	4,020lbf	N/A	N/A	Equip. Max	
2	Deck	Concrete	-	1	4,020lbf	N/A	N/A	Equip. Max	1,005psf
	Waterproofing	Basecrete	Prepared by combining Basecrete Flexible Waterproofing Bondocat and Dry Mix Compound; Applied in two 1/16" thick coats for a total of 1/8" thickness	2	4,020lbf	N/A	N/A	Equip. Max	
	Overburden	Nominal 12" x 12" x 0.5" ceramic tiles complying with ANSI A137.1	ANSI A118.1 Portland cement thinset mortar applied with a 1/4" x 1/4" x 1/4" notched trowel	3	4,020lbf	N/A	N/A	Equip. Max	
3	Deck	Concrete	-	1	4,020lbf	N/A	N/A	Equip. Max	1,005psf
	Waterproofing	Basecrete	Prepared by combining Basecrete Flexible Waterproofing Bondocat and Dry Mix Compound; Applied in two 1/16" thick coats for a total of 1/8" thickness	2	4,020lbf	N/A	N/A	Equip. Max	
				3	4,020lbf	N/A	N/A	Equip. Max	

Note(s): None

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**Statement of Compliance:**

The laboratory test results presented in this report are representative of the material supplied and test specimens constructed. Testing was conducted in accordance with **ANSI/FM 4474 Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures (2011), Appendix B: Simulated Wind Uplift Pull Test Procedure**, and **The Florida Building Code Test Protocols for the High Velocity Hurricane Zone (HVHZ) Testing Application Standard (TAS) No. 114-95, Appendix D: Test Procedure for Simulated Uplift Pressure Resistance of Adhered Roof System Assemblies.**



Signed:

  
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Zachary R. Priest  
Florida Registered Professional Engineer  
PE No. 74021

**Report Issue History:**

Issue #	Date	Pages	Revision Description (if applicable)
Original	07/22/2022	4	NA

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Representative Photographs of Failures

<p>No failure</p> <p><b>Assembly No. 1</b></p>	<p>No failure</p> <p><b>Assembly No. 2</b></p>
<p>No failure</p> <p><b>Assembly No. 3</b></p>	

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