PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for:	Harry El Kara Manta Roofing Products 1200 SE 20th Street Fort Lauderdale, FL 33316
Product Name:	Manta #304 Modified Cement
Project No.:	2819T0011
Dates Tested:	Sep. 15, 2025 – Sep. 23, 2025
Test Methods:	ASTM D4586 ASTM D3409
Results Summary:	Compliant with ASTM D4586 Type I

Purpose: Evaluate for compliance to Type I requirements of ASTM D4586: *Standard Specification for Asphalt Roof Cement, Asbestos-Free*.

Test Methods: Testing was completed in accordance with ASTM D4586-07(2012): *Standard Specification for Asphalt Roof Cement, Asbestos-Free*. Test methods assigned or referenced include ASTM D4: *Standard Test Method for Bitumen Content*; ASTM D95: *Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation*; ASTM D3409: *Standard Test Method for Adhesion of Asphalt-Roof Cement to Damp, Wet, or Underwater Surfaces*; and ASTM D6511: *Standard Test Methods for Solvent-Bearing Bituminous Compounds.*

Sampling: The following material was received by PRI.

Product	Source	Date	Sampling
Manta #304 Modified Cement	Fort Lauderdale, FL	Aug. 18, 2025	Manta Roofing Products

Manufacture location for Manta #304 Modified Cement evaluated herein has been verified as Fort Lauderdale, FL.

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: ASTM D4586 & ASTM D3409

Property	Test Method	Result	Requirement
Composition			
Water Content (%) 2 specimens; approx. 75-100g; Solvent-carrier liquid: xylene	ASTM D6511 Water Content (ASTM D 95)	0.9	≤ 3.0
Nonvolatile matter (%) 2 specimens; 10±1.00g; Cond. to constant weight @ 325±5°F	ASTM D6511 Nonvolatile Content	75	≥ 70
Mineral and/or other stabilizers (%) 1 specimen; 2g; Filter with 1,1,1 Trichloroethylene	ASTM D6511 Mineral Stabilizers and Bitumen (ASTM D 4, Proc. 2)	24	15 ≤ x ≤ 40
Bitumen (asphalt) (%) 1 specimen; 2g; Filter with 1,1,1 Trichloroethylene	ASTM D6511 Mineral Stabilizers and Bitumen (ASTM D 4, Proc. 2)	45	35 ≤ x ≤ 65
Physical Requirements			
Uniformity *[Pass/Fail]*	ASTM D6511 Uniformity	Pass	A thoroughly stirred sample shall show no separation of solvent or settling that cannot be overcome by moderate stirring after standing 72h at room temperature in a closed container.
Workability *[Pass/Fail]*	ASTM D4586	Pass	The cement shall be of a consistency that will spread readily and permit troweling smooth coatings, 1/16 to 1/4 in thick, on prepared roofing, saturated felt, and metal surfaces at ambient temperatures above 50°F.
Behavior at 140°F 2 specimens; 3" x 5" x 3/32" thick; Cond. 1h @ 73.4±3.6°F; Cond. 5h @ 140±3.6°F;	ASTM D6511 Behavior at 140°F		
Examine for Blistering *[Pass/Fail]*		Pass	The cement shall show no evidence of blistering.
Determine Sagging or Sliding (in)		0	≤ 1/4
Pliability @ 32°F *[Pass/Fail]* Specimens from Behavior at 140°F; Cond. immersed for 1h @ 32°F; Test 180±5° over 1" ø in 2±1s @ 32°F; Visual Inspection in "flexed" position	ASTM D6511 Pliability at 32°F	Pass	There shall be no cracking or separation of the cement from the metal.
Additional Properties			
Adhesion (%) 3 Specimens; 5g on 55mm metal lid; Cond. immersed for 5min @ 32°F; Apply flamed lid while immersed; Remove from bath and separate lids; Visual inspection for coverage	ASTM D3409	100	100

Note(s): None.

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Statement of Compliance: The product tested is compliant with Type I requirements of ASTM D4586: *Standard Specification for Asphalt Roof Cement, Asbestos-Free*. The laboratory test results presented in this report are representative of the material supplied.

Signed: _____ **Signed:** _____

Anthony Catlett
Manager

Zach Priest
Florida Registered Professional Engineer
P.E. Number: 74021

Date: _____ **Date:** _____

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Draft	09/25/2025	3	NA

END OF REPORT

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