



FLEXCRETE ASTM LABORATORY CERTIFIED RESULTS

Purpose:

Evaluate Flexcrete flexible cement based waterproofing for compliance with **ICC-ES AC 39 Acceptance Criteria for Walking Decks and TAS 114 Test Procedures for Roof System Assemblies in the High Velocity Hurricane Zone Jurisdiction**

Test Methods:

Testing conducted as described in ICC-ES AC 39. Test methods are as follows:

Section 4.1 Weatherometer Testing

ASTM G 155 Accelerated Weatherometer Testing—ASTM C 1442 / ASTM G 155

*5 specimens under 2000h (Xenon-Arc) Results: No cracking, crazing, spalling, or softening under 5X magnification. **PASSED***

Section 4.2 Accelerated Aging

ASTM D756 Accelerated Aging

*Weight and shape changes of plastics; No weight or shape changes **PASSED***

Section 4.5 Bond Strength

ASTM C 297 Bond Strength (psi) ASTM C 297— ASTM G 155—ASTM C 67

Requirement: ≥ 10 Result: 39 or 3.9 times the requirement

Post Xenon Arc Weathering (2000h) Requirement: ≥ 10 Result: 135 or 13.5 times the requirement

Post Freeze-Thaw: Requirement: ≥ 10 Result: 85 or 8.5 times the requirement

Section 4.6 Abrasion Resistance

ASTM C 501 Abrasion Resistance

Requirement: ≤ 40 Result: 0.5 or 80% better than the requirement

Section 4.7 Percolation Test (in. of water loss)

ICC-ES AC39 Requirement: ≤ 0.5 Result: 0.4 or 20% better than the requirement

Section 4.8 Water Absorption

ASTM D 570 Water Absorption (ASTM Standard Test Method for Water Absorption of Plastics)

Requirement: ≤ 15 Result: 13 or 14% better than the requirement

Section 4.9 Chemical resistance

ASTM D 2299 Chemical Resistance (ASTM D2299 Recommended Practice for Determining Relative Stain Resistance Of Plastics)

Requirement: PASS

*Industrial Detergent Solution (20%) **PASSED***

*Ammonia Solution (20%) **PASSED***

*Salt Solution (20%) **PASSED***

*Muriatic Acid (10%) **PASSED***

