

Mock-Up Test Report - Exterior Applications

(Should be submitted to all Mock-Up participants listed on the Mock-Up Registration Form BEFORE Project Installation Commences)

This is Mock-Up # ____ of ____ Total Mock-Ups to be Conducted on this Project.

Purpose: To determine the acceptability to all parties of the

- 1- suitability, performance, and application protocol of the ACTECH 2170™FC Primer for the specific concrete slab in this project.
- 2- effectiveness of the surface preparation techniques and workmanship of the ACTECH Approved Contractor(s) in making the concrete slab ready to receive the ACTECH 2170™ FC Primer
- 3- success of the ACTECH Approved Contractor(s) in installing the ACTECH 2170™FC Primer and making it ready to receive the next product in the Roofing or Waterproofing Assembly
- 4- eligibility of the project for ACTECH's Labor + Material Performance Warranty

The Approved ACTECH Contractor should keep about **10 SF of the total Mock-Up area free of subsequent system installation** to allow for (1) testing the quality of concrete surface preparation, (2) testing the performance of the ACTECH 2170™FC Primer application to the prepared concrete substrate, and (3) to provide a quality control standard / reference for continually assessing the larger project installation.

Re-working of mock-up area(s) may be required to produce acceptable work. DO NOT PROCEED with the Project Installation of the ACTECH 2170™ FC until the test results (listed below) and the workmanship have been approved by the Project Architect/Engineer/Owner Representative/Technical Representative of the Roofing or Waterproofing Products in the assembly.

NOTE: Mock-Ups are intended to reflect the ACTUAL conditions for the entire project. Many jobsites will exhibit several conditions across the deck that require different types of surface preparation, spread rates, and product application methods. It may be necessary to conduct several mock-ups to test and record compatibility of each substrate condition separately. Submit a separate copy of this form for each Mock-Up area.

NOTE: It is necessary that the mock-up be as closely followed as possible by the general installation once the mock-up is approved. Do not allow a substantial amount of time to elapse between the mock-up and the installation of the system, especially on external applications where a change in ambient or general conditions can greatly affect the outcome of the final installation and give differing results than those obtained from the original mock-up.

Always refer to ACTECH Product Datasheets and Application Guidelines as well as ICRI, ACI, ASTM and SSPC technical guidelines and industry Best Practices regarding surface preparation, substrate requirements, and Epoxy installation instructions.

Take the assistance of ACTECH Technical Staff on any questions or concerns you have **before commencing work**. We're here to assist in every way we can – each step of the way.

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When and Where to Submit?

Submit To: team@actechperforms.com

Project Mock-Up Information

Report Recorded & Submitted by: _____ (Architect, Engineer, Owner Representative)


Email _____ Ph: _____ Date: _____

Name(s) of Approved Onsite ACTECH Supervisor(s) Conducting the Mock-Up : _____

Project Name: _____ Tentative Project Size (SF): _____

Project Location: _____ State: _____ Zip: _____

Mock-Up Size _____ SF

 TECH TIP: Sketch Location Map to Identify Mock-Up Location within Project Area

Important: If a sand broadcast is required to adhere the next layer in the assembly (on top of the ACTECH 2170FC), DO NOT SEED THE SAND INTO THE MOISTURE MITIGATION COAT. Instead, apply a thin Bonding coat over the cured Moisture Mitigation Coat to accept the sand broadcast. Broadcasting sand into the moisture mitigation coat will void the warranty.

Will the subsequent system being installed on the Mock-Up (for example, MMA or PMMA) require a sand broadcasted Bonding Coat directly on top of the ACTECH System? Yes No

Documentation of Mock-Up Tests

Substrate Condition & Surface Preparation Tests:

- Concrete Compressive Strength (minimum 3000 PSI using re-bounce hammer) _____ psi
- Concrete Cohesive Strength (minimum 200 PSI using pull-off tester): _____ psi
- Concrete Profile achieved to pass Water-Drop Test (minimum CSP3) _____
- If Concrete contains reinforcing fibers were they burned off? Yes No
- Water-Drop Test Results: (Must Absorb into the mechanically profiled substrate within a Maximum of 60 seconds)


Test 1 _____ Seconds
Test 2 _____ Seconds
Test 3 _____ Seconds
Test 4 _____ Seconds
Test 5 _____ Seconds

 TECH TIP: Photos / Videos documenting Water-Drop Test /Timer Results / Any Additional Information

ACTECH 2170™ FC Application

Pin-Hole Prevention Coat: (If used) Date Installed: _____ SF Area Covered: _____

- Amount of material used to thinly coat surface and coat voids/cracks/joints
ACTECH 2170™FC _____ Acetone _____
- Time period between Pin-Hole Prevention Coat and Moisture Mitigation Coat _____ hours
(minimum 12hrs -- to permit flash-off and avoid solvent entrapment)
- Are there any signs of solvent entrapment? (uncured material)? Yes No
- Were additional hours required for flash-off and for curing “tack free”? Yes No
How long did it take? _____

 **TECH TIP:** Take Photos of Consolidation Coat BEFORE Installing Moisture Mitigation Coat

Moisture Mitigation Coat: (Always Required) Date Installed: _____ SF Area Covered: _____

- Was Consolidation Coat exposed to precipitation before completely cured? Yes No
- Remedy Used _____

• Environmental Conditions at time of installing Moisture Mitigation (2nd Coat)?
Air Temp _____ Relative Humidity _____ Slab Temp _____ Dew Point _____

• Amount of material used to achieve a minimum of 12 mils (WFT) of ACTECH 2170™FC over all high spots _____ Gallons

NOTE: Coverage Spread rates may vary due to concrete surface conditions; prep, absorption, material wastage, etc.

- Upon completing application of ACTECH 2170™FC, did surface appear “glossy” with no protrusions, fibers, or debris visible on the surface? Yes No
- Were any pin-holes, fisheyes, condensation, amine blush, or bubbles beginning to form immediately after application of the ACTECH 2170™FC? Yes No

Bonding Coat: (Used if Mechanical Bond Required) Date Installed: _____ SF Area Covered: _____

- Amount of material used _____ Gallons

- Were any pin-holes, fisheyes, condensation, amine blush, or bubbles beginning to form immediately after application of the Bonding Coat? Yes No

Post-Cure Subjective Evaluation

Allow a minimum of 4 hours for the ACTECH 2170™FC application to cure (depending on the weather and environmental conditions).

- Was the Moisture Mitigation Coat exposed to excess dewpoint, high humidity, or precipitation (before it cured) that could adversely affect the coating? Yes No

Remedy Used _____

- Does a “Touch Test” of the cured 2nd coat reveal any physical protrusions / high spots that were not completely covered with 12 mils of ACTECH 2170™FC? Yes No

Remedy Used? _____

- Does a “Touch Test” of the cured 2nd coat reveal any “Greasy” amine blush formation? Yes No

Remedy Used? _____

- Any Pinholes? Yes No

Remedy Used? _____

- Any Fisheyes? Yes No

Remedy Used? _____

- Any Bubbles? Yes No

Remedy Used? _____

- Any Other Defects Observed? Yes No

Remedy Used? _____

👉 TECH TIP: Take Photos of Final Installation Result/Condition of Moisture Mitigation Coat

Performance Data – Did ACTECH 2170FC Successfully Bond to the Concrete Substrate?

NOTE: Tests must be conducted on the ~10 SF of the Mock-Up area reserved for ACTECH 2170™FC testing that remained free of any subsequent layer in the system assembly.

- Date Pull-Off Tests were taken _____
- Bond strength of ACTECH 2170™FC directly to concrete. (Pull-Off Test; ASTM D7234; **minimum 200 psi required after 7 days**):

Test 1: _____ psi | failure mode _____
Test 2: _____ psi | failure mode _____
Test 3: _____ psi | failure mode _____
Test 4: _____ psi | failure mode _____

👉 TECH TIP: Photos documenting Pull-Off Test Results (writing PSI #'s on slab next to each "pull" is a Best Practice

NOTE: The Contractor/Installer of the next layers in the roofing/waterproofing assembly is responsible for ensuring that the recoat window between ACTECH 2170™FC and the subsequent system are honored and that the surface of the Moisture Membrane Coat is clean and ready to receive/bond with the subsequent system.

Mock-Up Test Conclusion

This On-Site Mock-Up of the Concrete Surface Preparation Methods and the ACTECH 2170™FC Moisture Mitigation Application Performed by the Approved ACTECH Contractor is

Acceptable having achieved all required suitability and performance tests and showing no signs of incompatibility to the prepared substrate or failure due to workmanship or environmental conditions (as installed). _____ (date)

Un-Acceptable
If the Mock-Up is NOT acceptable, describe the issues in some detail for planning the Re-Working of the Mock-up or for the withdrawal of the ACTECH 2170™FC product as an appropriate solution for this project's concrete substrate. _____ (date)

Mock-Up Acceptance / Non-Acceptance:

Signature Technical Representative of System(s) to be Installed on top of ACTECH 2170™FC : (E-Signature Acceptable)

_____ Date: _____

Signature of Project Engineer/Architect/Owner Representative: (E-Signature Acceptable)

_____ Date: _____

Signature of Other: (E-Signature Acceptable)

_____ Date: _____

Signature of Approved On-Site Supervisor: (E-Signature Acceptable)

_____ Date: _____

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Date Received By ACTECH _____ Name: _____
Signature of ACTECH Reviewer: _____
Date Sent Back to On-Site Supervisor: _____

