

## Meet Industry Standards

- Independently tested for full ASTM F3010-13 compliance.
- ASTM F3010-13 is the only construction industry standard for Moisture Mitigation on concrete slabs.
- Use to prepare concrete slabs for pH-sensitive / moisture sensitive products specified in resilient flooring, commercial coating, and low-slope roofing projects requiring compliance with ASTM and ACI industry standards.

## Use This Product When

- High value coverings and coatings require guaranteed long-term protection against concrete alkalinity & moisture.
- Excessive slab moisture vapor readings exceed tolerances of other Moisture Mitigation products.
- Fast Track Construction could benefit from Green Concrete application (72 Hours after placement).
- Early “Dry-In” is necessary before final roofing installation begins.
- Contract is for rapid “Same Day or Overnight” work;
- Renovation of occupied spaces requires a ZERO VOC, “no odor” installation.

## Additional Features

- 4 Hour Fast Cure;** No Extra Accelerators to Mix
- SINGLE COAT System** (Regardless of Moisture Drive)
- No Sand Broadcasting / No Pre-Wetting Slab
- Zero VOC Emissions** /Odorless
- No Upper Limit on Moisture or Alkalinity:**  
100% RH (ASTM F2170), 25 pounds (ASTM F1869)  
pH of 14 (ASTM D1308)
- 15 Year** Labor & Material Warranty
- Long US Product Performance History (since 2000)

## Packaging

**Packaging** 2.4 Gallon Combi Units  
**Color** Clear/Amber

## Storage

24 months; No Direct Sunlight; Protect From Freezing. Acclimatize material for 48 hours prior to use.

## Chemical Resistance

- |                    |                                  |
|--------------------|----------------------------------|
| • Diluted Acids    | • Lubricants                     |
| • Diluted Alkalis  | • Fuels                          |
| • Saline Solutions | • Wet: Up to 140° F (short term) |
| • Mineral Oils     | • Dry: Up to 160° F              |
| • Sewage Water     |                                  |

For specific chemicals or other questions, please contact AC•Tech technical staff.

### **FOR COMMERCIAL USE ONLY: KEEP OUT OF REACH OF CHILDREN & PERSONNEL NOT TRAINED IN ITS USAGE.**

*The information contained in this Technical Data Sheet is based on construction site experience and laboratory testing and is provided in good faith as reliable. However, it is your responsibility to determine the suitability and completeness of this information for your own specific use. It is always a best practice to contact our technical department for further information and to install a test patch before starting any project applications. Our advice, verbal, written or based on test results, does not exempt you as the applicator from exercising your own professional judgment or from adhering to construction industry standards. Always observe the installation recommendations of the final coating or floor covering manufacturer. Be sure the Material Safety Data Sheet is read and understood by all members of the crew. The publication of this Technical Data Sheet invalidates all previous versions.*

## ASTM E96 Testing / ASTM F3010-13 Compliance

**Permeance at 12 mils** - 0.07 grains hr<sup>-1</sup> ft<sup>-2</sup> in Hg<sup>-1</sup> (perms)

CTL Labs Report: #281337

Date: 10.25.2012

## VOC Testing / CA Specification 01350 Compliance

**VOC's: 0.00 g/l** - Method: CDPH/EHLB/Standard Method Ver. 1.1, 2010

Berkley Analytical: #140527-01 Date: 5.27.2014

## Details for Application and Technical Data

Pot Life (75° F)	~15 - 20 Minutes
Substrate Temperature	50° - 90° F
Application Humidity Dew Point	+ 5° F Above Dewpoint
Concrete Cure Time	3 - 5 Days
Minimum Recoat Time (75° F)	4 Hours*
Cure Time / Foot Traffic (75° F)	4 Hours*
Cure Time / Heavy or Rolling Loads (75° F)	5 Days*
Cure Time / Chemical Resistance (75° F)	3 Days*
Mixing Ratio (A:B by volume)	2.43 : 1
Density (75° F)	1.10 g/cm3
Volume Solids	100%
VOC Emissions	0.000 g/l
Viscosity (75° F)	900 cps
Compressive Strength	14,500 PSI
Tensile Strength	4,300 PSI
Shore D Hardness	82 at 48 Hours

*\*Approximate values for specification guidelines. Cure times are dependent upon ambient temperature and humidity at the job site.*

## Coverage Rates

Concrete	ICRI CSP Value	Spread Rate
New Concrete	3 - Shot-Blasted	135-150 Sq. Ft. / Gallon
Existing Concrete	4 - Shot-Blasted	75-125 Sq. Ft. / Gallon

**Ensure a minimum of 12 mil coverage over all high spots on properly profiled concrete.**

*Coverage rate may vary based on quality of concrete matrix, slab surface porosity, and consistency of concrete surface profile (CSP) achieved during prep work.*

## Core Testing (Pre-Installation Advice)

Due to the wide range of unknown factors possibly contained in an existing concrete slab, it is a Best Practice to have cores tested and analyzed to determine slab condition. Do this before bidding on the project and “accepting” the slab. Consult AC•Tech Technical Staff for best practices on Core Testing and assistance with interpreting lab results.

## Tools & Equipment (Not Limited To)

Protective gloves, protective eye wear, protective footwear, spiked cleats/sandals, shot blaster, diamond grinder with vacuum attachment, ShopVac, 300 - 400 RPM drill with epoxy / jiffy mixing attachment, 10-16 mil notched or flat squeegee with handle and a 3/8" short nap roller with handle or 3/16" Nap Roller.

## Surface Preparation per ICRI Tech Guide No. 310.2R

**New concrete:** CSP-3

**Existing concrete:** CSP-4

**Special Cases:** CSP Value as directed by AC•Tech Technical Staff.

**Tools:** Shot Blaster and Hand Diamond Grinder

**NOTE:** grinding should only be considered when shot blasting cannot be performed  
Contact AC•Tech Technical Staff if shot blasting is not possible.

## Concrete Requirements Before Coating

Compliance with ASTM F710-11, ASTM F3010-13, and ACI 302.1R:

- 1.) Minimum of 200 psi tensile, and 3000 psi compressive.
- 2.) Must be visibly dry, dust and stain-free prior to application.
- 3.) ASTM C-33 Certified Aggregate. (Precaution against ASR)

## Installation Conditions (See AC•Tech Dew Point Chart)

Ensure Air, Substrate, and AC•Tech 2170™ FC Temperatures are:

- 1.) Within 50° - 90° F, and
- 2.) **NOT** Within 5° F of the Dew Point.
- 3.) Are steady and/or falling at time of application.

## Mixing Instructions

- 1.) Organize a mixing station near the installation area. Use plastic or cardboard to protect work area.
- 2.) Pour Part B into Part A and mix for 3 minutes using a 300 - 400 RPM drill with a Jiffy mixer attachment.
- 3.) A third mixing pail or "boxing" is recommended to ensure complete mixing of material from sides of cans.

**WARNING:** Leaving mixed material in cans may cause an exothermic reaction resulting in potentially harmful smoke. Empty all cans ENTIRELY. Ensure to brush mixed material in B can so that material on walls of both A and B cans will cure for disposal. Do not dispose of any liquid resins. Move all empty cans outside ASAP.

## Installation Instructions

- 1.) Quickly spread material using a flat or notched squeegee (10-16 mil) Ensuring proper coverage rates are achieved.
- 2.) Back-roll the spread material using a 3/8" short nap roller that is suitable for epoxies to ensure even coverage.
- 3.) Provide adequate ventilation and protect area from moisture, dirt, dust and foot traffic.

**DO NOT:** Set pails upside down to drip on floor. (Can create high/ soft spots in coating)

**DO NOT:** Allow material to puddle. (Avoid inadequate coverage)

**DO NOT:** Introduce Air Bubbles by Overworking material.

**Note:** If material pinholes or fisheyes contact AC•Tech Technical Staff ASAP.

## Final Flooring & Coatings Installation

Contact AC•Tech for installation instructions for additional products and systems not listed below.

**Adhesives** installed directly over the cured AC•Tech 2170™ FC must be formulated for a non-porous substrate. Contact adhesive manufacturer or AC•Tech for product compatibility test results.

**Cementitious Underlayments & Patching** require a Primer for proper adhesion. Use AC•Tech 2170™ SLP (quick drying primer) or a primer approved by the underlayment's manufacturer. The primer must be designed for a non-porous substrate. See AC•Tech 2170™ SLP Technical Data Sheet for proper installation instructions.

**Resinous Coatings** can be installed directly over AC•Tech 2170™ FC upon cure. Perform a test patch to double check compatibility and application conditions.

### Recoat Windows For Coatings:

Less than 30 days: Ensure surface is dust and debris free;

More than 30 days: Perform a light sanding with a buffer sander using 60-80 grit sandpaper or coarse scuff pad. Ensure that the surface is dust and debris free. Use a wipe with suitable cleaner such as denatured alcohol.

**MMA or PMMA Roofing Membranes** can be installed directly over AC•Tech 2170™ FC upon cure. Perform a test patch to double check compatibility and application conditions.

### Recoat Windows For MMA or PMMA:

Less than 48 hours: Ensure surface is dust and debris free;

More Than 48 hours: Clean the initial coat of AC•Tech 2170™ FC and re-apply AC•Tech 2170™ FC at 200 sf/gal. Proceed with MMA/PMMA application.

**NOTES:** Inspect and Repair any and all breaches/missed areas with AC•Tech 2170™ FC prior to final flooring or coating installation. Always observe all installation instructions, recommendations and specifications of all product manufacturers used in the flooring, coating, or roofing system application. Contact AC•Tech for installation instructions for additional products and systems not listed.

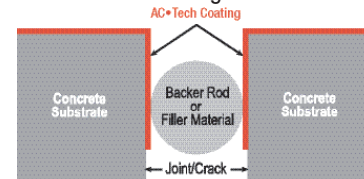
## Cracks and Joints

### For Non-Moving Cracks:

- 1.) Cracks Less Than 1/4" wide: Flood with AC•Tech 2170™ FC.
- 2.) Cracks Larger than 1/4" wide in temperature stable conditions: Saw-cut/chase by troweling a mixture of AC•Tech 2170™ FC and fumed silica such as Cab-o-Sil® or Aerosil®.

### For Moving Cracks, Control Cuts, and Expansion Joints:

- 1.) Open crack/joint to 1/4" width
- 2.) Coat all exposed crack walls with the AC•Tech 2170™ FC
- 3.) Once cured, install a flexible backer rod / filler material into void
- 4.) Install a suitable two-component caulk over backer rod / filler material and into crack ensuring it is level with the surface.



## Health and Safety

Always review product SDS before handling product. Do not expose skin, eyes or ingest mixed or unmixed AC•Tech 2170™ FC. When dealing with ingestion, note product CAS numbers and treat accordingly. Store, transport and dispose of in accordance with procedures in product SDS. Wear proper Personal Protective Equipment (PPE) when mixing and applying material.

## Warranties

AC•Tech 2170™ FC provides a fifteen (15) year labor and materials warranty when the product is applied by an AC•Tech approved applicator. Any product applied by an unapproved applicator will be covered by a 1 year material-only warranty. On-site visits by AC•Tech personnel do not constitute a warranty or alleviate the applicator from any responsibility or professional due diligence.

## Questions?

AC•Tech Technical Team is always standing by for any questions regarding installation or product performance. Please contact us any time.

**AC•TECH** | Allied Construction Technologies, Inc.  
When Performance Counts

www.actechperforms.com | team@actechperforms.com | 757-855-5100