

## LABOR-SAVING, ONE-STEP VAPOR EPOXY SLURRY FLOORING FOR PROBLEM CONCRETE SUBSTRATES.

**ACTECH VAPOR EPOXY SLURRY** combines ACTECH's well-established 2170™ FC Fast-Curing Moisture Mitigation Primer with a Specially Coated, Low Dust, Fine Milled Quartz Flour to produce our first-ever Self-Priming, Self-Leveling, One-Step Epoxy Slurry Flooring System suitable for problem concrete substrates.

### AVAILABLE IN PRE-MEASURED, 3-COMPONENT, 3.6 GALLON UNITS:

- Part A : Moisture & pH Mitigation Epoxy Resin (100% SOLIDS),
- Part B : Moisture & pH Mitigation Fast Cure Hardener (Zero VOC's),
- Part C : Specialty-Coated, Low Dust, Fine Quartz Flour Aggregate that disperses almost completely in our 100% Reactive Resin.
- Mixed Volume of each Unit yields 3.6 gallons of material.

### SPECIAL FEATURES:

ACTECH VAPOR EPOXY SLURRY was specifically engineered from our ACTECH 2170™ FC Fast-Curing Moisture Mitigation Primer to address Post-Covid challenges of craft labor shortages, increased labor mobilization costs, uncertain supply & availability of floor coating products, and the large backlog of renovation, retrofit, and adaptive reuse construction work that would benefit from concrete moisture vapor protection.

No need to prime concrete – unless it is exceptionally porous, contains soaked-in oils. or is being applied in a space that has not been acclimatized. No need to test concrete for moisture vapor or alkalinity (pH). ACTECH Vapor Epoxy Slurry has been Independently Tested (CTL # 263588, 4-29-22) to provide ASTM F3010 Performance on concrete with moisture levels up to 99% RH, 14 pounds MVER, and concrete alkalinity up to 14pH.

No need for special equipment or training to install this high impact and chemical resistant epoxy slurry. Professional concrete coating contractors will find ACTECH Vapor Epoxy Slurry easy and quick to install. Once tack-free and cured for light foot traffic (4-6 hours) it is ready for your final seal coat, wear-coat, top-coat, broadcast application, or flooring system.

### LIMITATIONS:

This is a specialty product. It is NOT price competitive with typical Sand-Epoxy Slurries that must first be primed and do not solve concrete moisture vapor issues.

NOT intended as a final wear surface.

The Light Tan Color of the Vapor Epoxy Slurry Coat is NOT UV Stable. It will yellow over time.

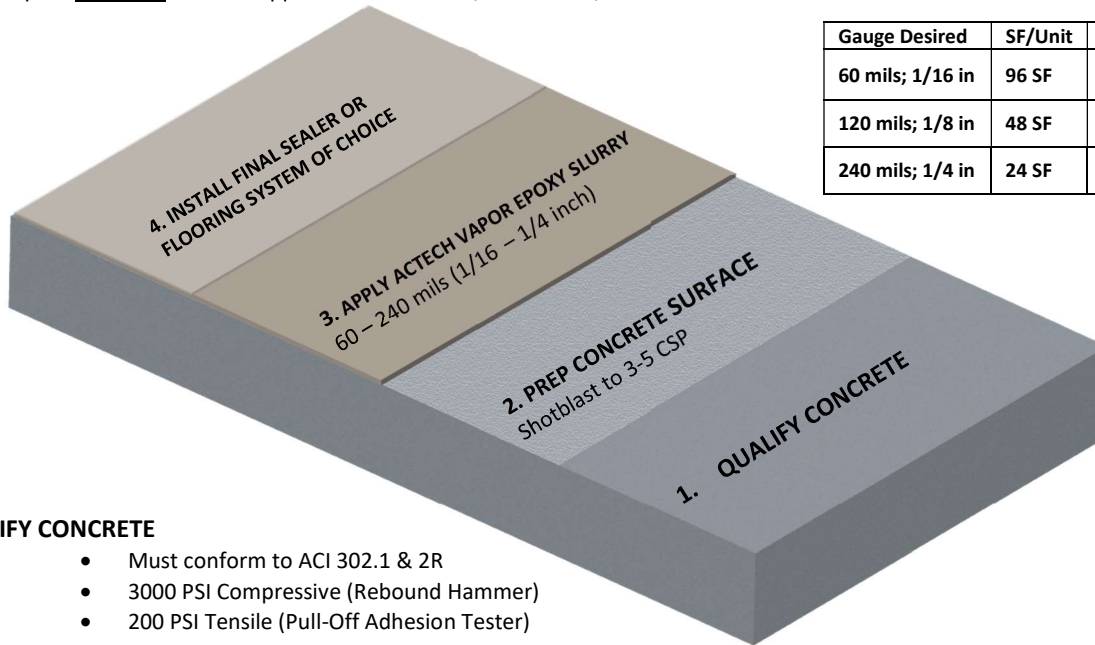
NOT suitable as a filler for expansion joints / moving joints.

NOT compatible with concrete or patching that contains gypsum.



## APPLICATION OVERVIEW

This is a quick summary. Consult Application Guidelines, Datasheets, and ACTECH’s Technical Team for more detailed technical Information.



| Gauge Desired    | SF/Unit | Tool Recommendation   |
|------------------|---------|---|
| 60 mils; 1/16 in | 96 SF   | 1 / 4" x 1 / 4" V-notched trowel / rake with extension pole |
| 120 mils; 1/8 in | 48 SF   | Adjustable CAM Gauge Rake/ Sled Rake with extension pole    |
| 240 mils; 1/4 in | 24 SF   | Adjustable CAM Gauge Rake/ Sled Rake with extension pole    |

### QUALIFY CONCRETE

- Must conform to ACI 302.1 & 2R
- 3000 PSI Compressive (Rebound Hammer)
- 200 PSI Tensile (Pull-Off Adhesion Tester)

### PREP CONCRETE SURFACE:

- Shotblast to CSP 3-5 (free of all dust, debris, and bond-breakers)
- Water Drop Test – Droplet Must Absorb within 60 Seconds. (If longer than 60 seconds, More Prep is Required).
- For fixed cracks ¼" depth or less: Flood them with ACTECH VES.  
For bigger cracks, moving cracks or expansion joints, See ACTECH Technical Bulletin on Cracks and Repairs.

**APPLY ACTECH VAPOR EPOXY SLURRY** – Figure 4 person crew for larger spaces (mixer, runner, gauge-rake spreader, spike backroller)

- **Check Environmental Conditions:** Meet ALL temperature, humidity, and dew point parameters. Ideally, climatize material and area for 48 hours before beginning application (refer to detailed Data sheet and application guidelines).
- **Mix :** 3 Pre-Measured Components (A, B, & C) = 1 Unit
  - Pour A and B into mixing bucket and mix for 1 minute using Jiffy Type mixer and 400 RPM Drill.
  - After 1 minute of mixing A & B, GRADUALLY pour Bag C of ACTECH VES Filler Part C into the partially mixed epoxy and continue to mix for 2 additional minutes. Scrape sides and bottom of bucket frequently. Make sure filler has been thoroughly dispersed in the epoxy liquid.
- **Pour, Rake, and Spike Roll**
  - Work Quickly. Pot Life is 10-20 minutes. Pour each complete batch onto the deck immediately after mixing.
  - Spread out gauged thickness as quickly as possible (no longer than 10 minutes).
  - Backroll immediately using a Spiked Roller to reduce bubbles, to remove rake marks, and to facilitate self-leveling for even coverage. Do not keep rolling back and forth in same spot. Work your way across entire area, keeping a wet edge for next batch.

### TOPCOAT, OR INSTALL FINAL FLOORING SYSTEM OF CHOICE (ACCORDING TO MANUFACTURER’S INSTRUCTIONS):

- Mock-Up is Always Strongly Recommended to verify product compatibility and site-specific application protocols.
- Vapor Epoxy Slurry should be tack-free and ready for next steps in 4-6 HOURS (Contingent on ambient temps and humidity).
- Sand Surface to remove imperfections for a thin-film product installation, if required.
- Recoat windows for other systems on top of ACTECH Vapor Epoxy Slurry is 4-72 hours unless otherwise stated by flooring product manufacturer. If longer, sand surface with 40-60 grit and then clean dust using suitable solvent such as acetone or denatured alcohol.