GO EARLY TECHNOLOGY™
For Fast Track Construction

System Guidelines

Description

The AC•Tech Go-Early Technology™ system is a one coat vapor reduction system comprised of a two component, VOC free, 100% solids epoxy resin (AC•Tech 2170™ or 2170™ FC). These epoxies are specially formulated to resist high levels of moisture as high as 100% RH (ASTM F2170) or 25+ lbs MVER (ASTM F1869) and sustained levels of alkalinity as high as pH 14 (ASTM F710). The epoxy also has a very low permeance rating of .05 - .07 perms (ASTM F3010), which confirms it's vapor reduction capabilities. The Go-Early Technology™ system is specifically developed for use anywhere where vapor reduction on green, newly poured concrete is required, even on 3 - 5 day old concrete. It can be used on fast-track construction projects such as (but not limited to): hospitals, retail stores, supermarkets or other areas required expedited completion. The Go-Early Technology™ system is installed in Division 03 of the CSI MasterFormat rather than Division 09, which allows for the immediate installation of all subsequent building elements, materials and flooring systems or coatings while also proving a smooth, durable and easy to clean surface. Because of it's high level of performance, concrete substrates do not require moisture testing, curing compounds, concrete densifiers or hardeners or extensive repair due to impact damage, curling or cracking. All cementitious underlayments and resilient flooring systems can be installed directly over the cured epoxy, including most resinous floor coatings. The epoxy is available in a 12 hour cure(AC•Tech 2170™) or 4 hour cure (AC•Tech 210™ FC) formula, depending on use. AC•Tech 2170™ can be used on any indoor or outdoor concrete structures requiring moisture vapor reduction and alkalinity control.

- ***Can Install on New Concrete***
  3 - 5 Days old
- ***No Moisture Testing Required***
- ***Unaffected By Elevated Moisture***
  Withstands 100% RH (ASTM 2170)
  25+ Lbs MVER (ASTM F 1869)
- ***Resists Alkalinity up to pH 14***
- ***Inert & Harmless Once Cured***
- ***VOC & Solvent Free***
- ***Strong & Durable***
- ***Excellent Chemical, Mechanical & Abrasion Resistance***
- ***Expedites Project Completion***
- ***4 or 12 Hour Cure Available***

Installation

1. Surface Preparation

All concrete surfaces to be coated with the Go-Early Technology™ system must be free of all adhesives, coatings, curing compounds, concrete sealants, efflorescence, grease, oil, patching materials, previous flooring materials, but and any other material that may act as a bond breaker or sponsor osmosis.

Shotblast or mechanically prepare the concrete surface to an ICRI CSP-3. Grinding is generally not acceptable but may be considered (only in areas where shotblasting cannot be done). Consult AC Tech technical staff for guidance. Hand tool perimeter and corners to the same CSP value as floor area.

For more information regarding surface preparation, please consult AC Tech Technical Staff.

2. Installation Conditions

Prior to installing the Go-Early Technology™ system, ensure that air, concrete and 2170™ or 2170™ FC material are within 50° - 90° F. Ensure that air and substrate temperatures are not within 5° F of the dew point. Condensation prior to or during application as well as during curing could effect the quality of the 2170™ installation.

Ensure temperatures are steady and/or ***falling*** at time of application. When temperatures are within 5°F of dew point, ensure temperatures are steady and/or ***rising*** at time of application. For help determining the dew point, please see AC•Tech Dew Point Chart or contact the AC•Tech technical staff.

If inclement weather is expected before, during and after installation, ensure all floor/window openings near the installation area are sealed with temporary sheeting or protection and install dams at edges of floor area to prevent damage and water flow due to rain, inclement weather or adjacent cleaning measures.

If extreme weather conditions (snow, freezing conditions, heat waves, sand storm etc.) or extreme temperature fluctuations are anticipated, please consult AC•Tech technical staff before proceeding with installation.

3. Mixing Instructions

Prior to mixing the Go-Early Technology™ system, place both cans on protective material (such as cardboard or plastic) and open both cans. Premix part A for ~30 seconds. After premixing, pour Part B into Part A and mix for 2 - 3 minutes using a 300 - 400 RPM drill and an epoxy or Jiffy mixing attachment. After mixing is complete, immediately pour the ***entirety*** of the mixed material onto the prepared concrete surface.

4. Installation Instructions

The Go-Early Technology™ system is applied in one coat. Quickly spread material using a flat or notched squeegee (10 - 16 mil) and ensure proper coverage rates are achieved. Do not allow material to remain puddled for very long, as the material may begin to harden prematurely.

As soon as the material is spread, back-roll using a 3/8" short nap roller that is suitable for epoxies to ensure even coverage. Replace paint roller as necessary.

While curing, protect area from water, moisture, dirt, dust and foot traffic. ***If installing in an enclosed space,*** provide adequate ventilation. Allow the system to cure for it's prescribed cure time before allowing foot traffic or placing items on the surface.

Coverage Rate: ~150 sq. ft. / gallon

5. Crack and Joints

Static or non-moving cracks (such as shrinkage cracks) that are 1/64" wide or less can be sealed with the Go-Early Technology™ system. Static or non-moving cracks that are between 1/64" and 3/64" wide can be saw-cut / chased and filled by troweling a mixture of AC•Tech 2170™ and Cab-o-Sil® or Aerosil®.

Static or non-moving cracks, control cuts and expansion joints that are larger than 3/64" ***AND*** any dynamic or moving cracks, control cuts and expansion joints ***or any concrete substrates that are exposed to extreme temperature fluctuations*** should be treated as follows: Open crack, control cut or expansion joint to 1/4" width and coat all exposed crack walls with the Go-Early Technology™ system during normal installation; Once cured, install a flexible backer rod into void; install a suitable two-component caulk over backer rod and into crack to bring flush with concrete surface and proceed with subsequent installation (see large crack treatment illustration on next page).

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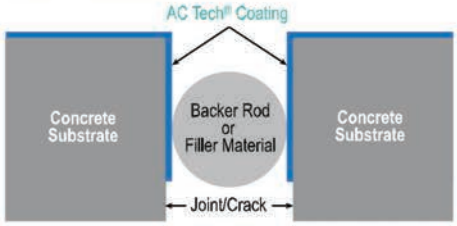
System Guidelines
continued

6. Large Crack Treatment Illustration



For any questions regarding cracks, please consult AC•Tech technical staff.

7. Coating Protection

Do not permit foot traffic over floor or finished surfaces until system has completely cured. Once cured, the Go-Early Technology™ system will required protection from other trades, construction materials and damage. To protect system, use a suitable protection board or protection material, especially in high traffic areas, and ensure adequate protection coverage. Ensure protection materials are non-slip or non-skid, as the Go-Early Technology™ system could create a slip hazard in the presence of topical liquids.

8. Cleaning Instructions

Prior to installing any and all subsequent coatings, adhesives or materials, the Go-Early Technology™ system must be cured to accept foot traffic. Ensure the Go-Early Technology™ system is clean, solid, sound and free of oil, grease, gypsum, dust and any other material that may act as a bond inhibitor. If necessary, clean the Go-Early Technology™ system with Xylene, denatured alcohol or a streak and film free, pH neutral cleaner.

9. Cementitious Materials

Prior to installing self-leveling underlayments, patches or other cementitious materials, the Go-Early Technology™ system must have a primer installed over it to ensure proper adhesion. Apply the AC•Tech 2170™ SLP primer to the cured Go-Early Technology™ system with a 1/16" short nap rollers at a spread rate of 800 - 1600 sq. ft. per gallon. Allow 30 - 60 minutes for the 2170™ SLP to dry before installing self-leveling underlayment or patch. All self-leveling underlayments, patches and any other cementitious materials must be installed over the cured Go-Early Technology™ system (unless otherwise specified), ***never under it.***

Follow any and all manufacturer's specifications and instructions when installing cementitious materials unless otherwise instructed by AC•Tech technical staff. For further information, please consult AC•Tech technical staff.

10. Concrete Penetrations

In areas where multiple holes or penetrations are to be installed in concrete substrates (except for Hilti-type holes), such as bolt holes for wire mesh, mechanically fastened flooring systems, heavy machinery, plumbing, pipe or electrical wire chases or other mechanical penetrations, consult AC• technical staff before penetration the Go-Early Technology™ system.

11. Flooring & Adhesive Installation

Prior to installing any subsequent flooring system or coating, ensure the Go-Early Technology™ system is intact and undamaged. If there is any damage, be sure to spot-repair as necessary before proceeding. Ensure all concrete that is receiving flooring has been coated with the Go-Early Technology™ system, especially concrete that has been poured after initial placement.

Most resilient flooring products and adhesives can be installed directly over the cured Go-Early Technology™ system. Ensure adhesive is formulated to be applied to a non-porous or smooth substrate or contact the flooring and/or adhesive manufacturer for the proper adhesive. Resinous flooring systems (such as epoxy or polyurethane) can be installed directly over the cured Go-Early Technology™ system, often without the use of a primer.

Follow any and all manufacturer's specifications and instructions when installing any and all flooring systems.

11. MMA or PMMA Roofing Installation

When installing MMA or PMMA roofing materials and membranes over the cured Go-Early Technology™ system, do not allow more than 48 hours to elapse from the time the Go-Early Technology™ system coating cures. If more than 48 hours has passed, ensure the initial coating is clean and re-apply the Go-Early Technology™ system per Installation Instructions at a spread rate of 200 sq. ft. per gallon and, once cured, proceed with roofing installation.

Follow any and all manufacturer's specifications and instructions when installing any and all roofing systems.

12. Health and Safety

Always review MSDS for ***each product*** before handling product and obtain appropriate PPE and handling equipment. Do not expose skin, eyes or ingest mixed or unmixed AC Tech materials. When dealing with ingestion, note product CAS numbers and treat accordingly. Store, transport and dispose of in accordance with procedures in each product's MSDS.

13. First Aid

Eye Contact: Flush immediately with clean water and seek medical attention.

Skin Contact: Wash affected areas with soap and fresh water. If a negative skin reaction is recurring, keep individual away and do not come into contact with material.

14. Warranties

AC•Tech provides a fifteen (15) year labor and materials warranty for the Go-Early Technology™ system when the product is applied by an AC Tech approved applicator.

Any product applied by an unapproved applicator is covered by a one year, limited material warranty. See limited warranty below.

15. Emergency Response

Info Trac: (800) 535-5053
Contract # 104212

Coverage rates may vary based on site conditions, concrete matrix, surface porosity and/or profile. Cure times vary based on ambient air temperatures and relative humidity. Please consult the AC•Tech technical staff on any questions or concerns regarding spread rates or cure times. This data may be altered to suit individual substrate circumstances, requirements, or needs. For more information, please see related technical data sheets, specifications and technical information.

FOR COMMERCIAL USE ONLY: **KEEP OUT OF REACH OF CHILDREN & PERSONNEL NOT TRAINED IN ITS USAGE**
READ MSDS & SAFETY PRECAUTIONS PRIOR TO USE

AC•TECH
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When Performance Counts!

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