



Instructions for Use of the Anabec Systems Products

Instructions for the Application of Advanced Cleaning Solution Plus which is (FBC Approved for Lubrizol CPVC products but is NOT approved for use on Spears Manufacturing CPVC products) ¹ , Systems Stain Remover (S.S.R.) and X70 or X90 Barrier	Pages 2 – 6
Instructions for the Application of Anabec's Flame & Fire Retardant (Spot cleaning, when necessary, with The Advanced Cleaning Solution Plus if using in tandem with the NewBuild 50) It is Highly Recommended that Anabec Products be applied "PRIOR" to any Mechanical Installations in New Construction.	Pages 7 – 9
Instructions for the Application of NewBuild 50 (Spot cleaning, when necessary, with The Advanced Cleaning Solution Plus)	Pages 10 – 11
Instructions for the Application and Use of Anasphere Plus™ (No longer available for sale)	Pages 12 – 13
Instructions for the Application and Use of Anafresh	Pages 14 – 15
Miscellaneous Information All Products: Including but not limited to; Materials Compatibility, Equipment, Safety, PPE and shelf life.	Pages 15 - 17
Anabec's Corporate Warranty Program for Qualified Contractors	Pages 17 - 18
Surface Testing Requirements for Warranty Submittals	Pages 18 - 19
Explanation of Anabec Transferrable Warranties	Page 20

Anabec, Inc.

9393 Main St., PO Box 433

Clarence, NY 14031

716-759-1674

800-369-8463

Anabec.com

Anabec Systems

Advanced Cleaning Solution Plus, Systems Stain Remover (S.S.R.), and X70 or X90 Moisture Barriers

Read detailed instructions for each specific application before applying the Anabec Product Systems. All instructions must be followed and documented for any Anabec warranty to be valid. Please visit Anabec.com and watch the free Anabec Product Training Video and when you have completed, take the test. The website also has additional product information and SDS documents.

Anabec's **Advanced Cleaning Solution Plus** is approved by FBC and is safe for use on Lubrizol's CPVC products. The Advanced Cleaning Solution Plus is **NOT** approved for use on Spears Manufacturing CPVC Products.

"FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology." "The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates."



Instructions for the Application of the Advanced Cleaning Solution Plus (FBC Approved for Lubrizol CPVC products), Systems Stain Remover (S.S.R.) and X70 or the X90 Barrier Products in a Microbial Abatement Setting

The Advanced Cleaning Solution Plus, is the cornerstone of the Anabec System, and is a hydrogen peroxide-based product. Useful for finished and unfinished building materials, this multi-purpose cleaner is often the first step in the Anabec System. The Advanced Cleaning Solution Plus mechanically removes organic debris and is very effective for use in residential, commercial, and institutional facilities. If staining is a problem your first step will be to use Anabec's Systems Stain Remover (S.S.R.) followed by the Advanced Cleaning Solution Plus and lastly, the appropriate barrier. Advanced Cleaning Solution Plus is available in a clear or blue tint. The clear dries clear, while the blue tint leaves a very light blue tracer behind.

IMPORTANT: Anabec's previous product, The Advanced Cleaning Solution, is **NOT** approved FOR USE ON CPVC Piping and Fittings. **The Advanced Cleaning Solution Plus is approved** by FBC and is safe for use on Lubrizol's CPVC products. The new and improved Advanced Cleaning Solution Plus replaced the Advanced Cleaning Solution in December 2018. The Advanced Cleaning Solution Plus is **NOT** approved for use on Spears Manufacturing CPVC Products.

Anabec Systems

X70 or X90 will be the second or third step in the application of the Anabec System of Products, depending on whether the Systems Stain Remover (S.S.R.) was applied. Application of X70 or X90 results in an extremely durable moisture barrier which can resist mold and mildew growth. X70 or X90 is applied after removing the staining with the Systems Stain Remover and cleaning the surface with the Advanced Cleaning Solution Plus. X70 or X90 is appropriate for use on previously cleaned unfinished building material surfaces. X70 or X90 can serve as a primer for latex paints. X70 can be purchased in a clear, white, or blue tint (blue tint is special order) that dries as a clear sheen or translucent white or blue finish. X90 is a solid white and dries as an opaque solid white finish.

1.0 Application of Anabec Product Systems in a Microbial Abatement setting

- 1.1 Pre-remediation Assessment:** Prior to remediation a complete investigation of the building must be done to find the source(s) of the contamination and to determine the extent of amplification of mold contamination. Please remember that ideal conditions for mold growth include relative humidity over 65%, temperature range between 60- and 80-degrees Fahrenheit, and a moisture problem. To prevent recontamination or future contamination, the moisture problem that contributed to the mold growth must be identified and corrected or controlled. As necessary, samples should be collected and sent to an independent, qualified laboratory for analysis.
- 1.2 Moisture Content:** Prior to remediation, it is imperative that the contractor test for the moisture content of the building materials being treated. Recommended material moisture levels for applying the Anabec Product Systems should be between 16- 20% in the areas that are to be treated. Materials should be as dry as possible so that the surfaces absorb the product. The Anabec Product Systems are designed and proven to effectively work at these moisture level percentages.
- 1.3 Work Area Access:** Every worker or visitor entering the work area must have instructions and training in the potential hazards associated with exposure to microorganisms. It is the responsibility of the contractor / workers to request the occupants to leave the work area while application of Anabec products is ongoing. If the occupant refuses to leave the work area the project should not continue.
- 1.4 Work Area Containment:** The work area must be contained to prevent the uncontrolled migration of dust and fungal spores from affected to unaffected areas. A primary critical barrier shall be constructed to envelope the entire abatement area and be large enough to effectively allow for uninhibited removal activities. This barrier typically consists of Polyethylene sheeting (fire retardant poly) often in combination with negative air pressure to prevent cross contamination. Negative air should be maintained, filtered and exhausted outside of the building by means of reinforced flex duct.

Systems Stain Remover (S.S.R.)

The Systems Stain Remover (S.S.R.) is to be used prior to the Advanced Cleaning Solution Plus for removal of stubborn staining. **Please Note: This is a cosmetic product only.** For remediation projects, the Advanced Cleaning Solution Plus followed by the appropriate moisture barrier (X70, X90 or New Build 50) must be used after the application of the S.S.R.

2.0 Systems Stain Remover (S.S.R.) Application Procedures



IMPORTANT: The Systems Stain Remover is NOT APPROVED FOR USE ON CPVC Piping and Fittings

2.1 Application Procedures: These procedures are for the application of the Systems Stain Remover (S.S.R.) in areas where staining is persistent. No dilution or mixing is required prior to use. Apply the Systems Stain Remover (S.S.R.) using a corrosive friendly pump-up sprayer. Caution should be taken, to **not use** an airless sprayer due to corrosiveness. Materials that tend to corrode should be protected from liquid or overspray. Read full product labeling for First Aid and other important product information. Full Personal Protective Equipment (P.P.E.) is required and should include the following: impermeable body suit, latex gloves, a full-face shield, and a respirator with an organic cartridge. Ensure a source of fresh air or positive fume extraction is available.

- 1) Have proper ventilation in the area where S.S.R. is to be applied.
- 2) Brush, scrub or wipe any visible mold, dirt, or debris.
- 3) HEPA Vac all surfaces.
- 4) **Cover all sensitive or incompatible materials**, i.e., electrical equipment, antiques, paintings, some plastics, etc. (see Miscellaneous Product Section)
- 5) Spray S.S.R. on all stained areas until thoroughly wet and let stand until stains disappear.
- 6) Allow to dry 1 – 2 hours before applying the Advanced Cleaning Solution Plus followed by the appropriate barrier.
- 7) If staining persists a second coat may be necessary.
- 8) S.S.R. may not be able to remove stains imbedded in drywall, silicone, old grout or hard water deposits and tannin stains.
- 9) Coverage of S.S.R. is approximately 250 – 300 square feet per gallon.
- 10) Shelf Life: 4 months in a climate-controlled environment.
- 11) Clean up: Rinse well with water.

3.0 Advanced Cleaning Solution Plus Application Procedures

3.1 Application Procedures: These procedures are for the application of the Advanced Cleaning Solution Plus in a Microbial Abatement setting. They are designed to be a minimum requirement for the application of the Anabec Product Systems and the validation of the applicable warranty associated with the process. See additional guidelines below for application to specific building materials. These procedures may vary based on specification documents, scientific community mandates and state-to-state guidelines.

- 1) Perform preliminary testing – See Surface Testing Requirements for Warranties on Pages 15-16.
- 2) Set up Containment system with negative air.
- 3) Turn on the negative air machine.
- 4) **Cover all sensitive or incompatible materials**, i.e., electrical equipment, antiques, paintings, some plastics, etc. (see Miscellaneous Product Section)
- 5) Brush all loose particles and follow with HEPA vacuuming of the entire area to remove viable and nonviable mold spores. If building materials are water damaged or highly contaminated, then complete removal of materials at this step if warranted.
- 6) The Advanced Cleaning Solution Plus Clear or Blue tint are ready to use directly from the pail. A dilution is required prior to use for carpet applications (see section 3.2.5). The Advanced Cleaning Solution Plus Blue will require a slight agitation prior to use for a good mixture of the blue tint.
- 7) Brush, scrub or wipe any visible mold. Complete reduction of visible mold pigmentation may not be achieved; this is due to the natural pigments transferred to the building materials. If staining is a problem, the Systems Stain Remover S.S.R. can be used prior to applying the Advanced Cleaning Solution Plus. As stated previously, the Systems Stain Remover is a cosmetic product only, and not a mold cleaner.
- 8) Apply the Advanced Cleaning Solution Plus to the contaminated materials using an airless sprayer or pump-up tank sprayer. The recommended tip size for the airless sprayer is .011. A light, even coat is all that is required when spraying the Advanced Cleaning Solution Plus. It is not necessary or recommended that the surfaces be saturated. The Advanced Cleaning Solution Plus can also be applied with a sponge, mop, or spray bottle. Coverage rates will be lower with certain application methods.
- 9) When using a fogger, fog the air in the entire room with the Advanced Cleaning Solution Plus (**negative air should be turned off when fogging**). When using commercial foggers, an Electric Ultra-Low –Volume (ULV) fogger should be used. Thermal Foggers cannot be used with the Anabec products.
- 10) Allow approximately 30 minutes to 1 hour of drying time when using an airless sprayer. When fogging wait 30 minutes for the fine mist to dissipate before applying X70 or the X90 per the guidelines provided below.
- 11) Available in Clear or a Blue Tint.
- 12) Coverage of the Advanced Cleaning Solution Plus is approximately 800 – 1,000 square feet per gallon when using an airless sprayer.
- 13) Shelf Life: 12 months in a climate-controlled environment.
- 14) Clean up: Soap and water or Simple Green.

3.2 Guidelines for application of the Advanced Cleaning Solution Plus to specific building materials

- 1) **Insulation:** Fogging must be done on insulation. Great care must be taken not to saturate the insulation surface. If the insulation is highly contaminated it must be removed. Allow one (1) day to dry before any vapor barrier is installed. Average coverage of insulation with a fogger is 800-1,200 square feet per gallon (thickness of insulation will determine actual square foot coverage).
- 2) **Ceiling Tiles:** A small area of the ceiling must be tested for color fastness prior to application. The Anabec Product System is water based and could leave water rings if applied too heavily. An airless sprayer should be used on ceiling tiles. Average coverage of 2 x 4 fissure ceiling tiles is 800-900 square feet per gallon.
- 3) **Plenums:** The plenum (airspace above the drop ceiling) should be fogged with the Advanced Cleaning Solution Plus using an industrial fogger or airless sprayer with a .011 tip. All walls of the plenum, joists, insulation, and fireproofing must also be fogged or sprayed. Average coverage of a ceiling plenum is 800-1,200 square feet per gallon.
- 4) **Hard Non-Porous Surfaces:** Most hard surfaces can be treated with the Advanced Cleaning Solution Plus. Any surface that is treated should be tested for color fastness prior to application. In most cases, wiping down

Anabec Systems

the area before the application of the Advanced Cleaning Solution Plus with a clean cloth will be needed. An airless sprayer or hand wiping can be used on hard surfaces. When using a fogger or airless sprayer, take precaution to not over spray the hard surfaces. Average coverage of hard non-porous surface with: Airless sprayer is 800-1,000 square feet per gallon, Fogger is 1,200-1,800 square feet per gallon, hand wipe is 500-600 square feet per gallon.

- 5) **Carpets:** Only the Advanced Cleaning Solution Plus Clear is recommended for use on carpets. Carpets that are heavily soiled or test high in contamination should be removed and disposed of. A small discrete area should be tested first for color fastness prior to application. An industrial extractor must be used on the carpet with a three to one mixture (one part of the Advanced Cleaning Solution Plus and three parts water). The extractor should be capable of 100-psi delivery and 95 percent extraction. Walking at a slow speed by the applicator is essential for maximum coverage and penetration. Industrial fans must be placed at strategic locations to enhance the drying process. The carpet must be rinsed with warm water in the extractor. Average coverage with use of an industrial carpet extractor is approximately 650-800 square feet per gallon. Anabec does not recommend using the Advanced Cleaning Solution Plus on silk and/or fine oriental carpeting.



IMPORTANT: X70 and X90 are NOT APPROVED FOR USE ON CPVC Piping and Fittings

4.0 Anabec's X70 and X90 Application Procedures **(NOT FOGGABLE)**

- 1) Anabec's X70 and X90 are penetrating moisture resistant barriers that provide long-term protection against the stronger strains of mold. **X70 and X90 can be applied to any building surface; however, it is a paint-like product and is therefore appropriate for only unfinished building materials.** X70 and X90 are water-based acrylic penetrants and are recommended for unfinished surfaces such as wood, brick, block, and drywall. X70 is available in clear, translucent white or (special order) blue tint, while X90 is available as an opaque (solid) white.
- 2) X70 and X90 are ready to use directly from the pail. No dilution is required prior to use.
- 3) Mixing is required prior to use. Use a drill with a paint paddle attachment to stir product for a minimum of 2-5 minutes for X70 and up to 10 minutes for X90. If adding tint to the X70 product, stir times require upwards of 15 minutes. Please call the office for tinting instructions.
- 4) After treatment of the Advanced Cleaning Solution Plus, spray a coat of the X70 or the X90 to the remediated surfaces (walls, ceilings, and floors, etc.) with an airless sprayer. The recommended tip size for the airless sprayer is .015 for X70 and .017 – .019 for X90. It is recommended that a light coat of the X70 or X90 be applied at approximately 1.5 to 2.0 wet mils per gallon of product.
- 5) Surfaces should be dry to the touch within 2 hours and completely dry in 18 – 24 hours.
- 6) Equipment clean-up requires soap and water, or Simple Green followed by a clean water rinse. This needs to be done immediately after the application is completed.
- 7) Perform post testing 48 hours after application (anything prior to 48 hours could result in failure because of the blooming effect) – See Surface Testing Requirements for Warranties on Page 15-16.
- 8) Coverage of the X70 is approximately 800 – 1,000 square feet per gallon using an airless sprayer.
- 9) Coverage of the X90 is approximately 250 - 500 square feet per gallon using an airless sprayer.
- 10) Shelf Life: 18 months in a climate-controlled environment.
- 11) Clean up: Soap and water or Simple Green.



Anabec Flame & Fire Retardant

It is Highly Recommended that Anabec Products be applied “PRIOR” to any Mechanical Installations in New Construction.

Anabec’s Flame & Fire Retardant (A.F.F.R.) is FBC System Compatible and is approved by Spears Manufacturing Company, Inc. for CPVC compatibility.



"FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology." "The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates."

Read the detailed instructions before applying the Anabec Flame & Fire Retardant product.

Instructions for the Application of Anabec’s Flame & Fire Retardant (A.F.F.R.)

Anabec’s Flame & Fire Retardant (A.F.F.R.) is a water-based fire retardant barrier. Our flame retardant ASTM E84 test provides Class 1 or Class A fire rated surface burning characteristics. A.F.F.R. operates as a barrier to retard flammability and smoke development. Our anti-flame technology is based on the active ingredient borate and ammonium polyphosphates to slow the burn rate. A.F.F.R. has a Class A flame spread classification rating on dimensional framing lumber. The product can be applied to plywood and composite wood with improvement for flame spread. A.F.F.R. has excellent resistance to insects and rodents. When using NewBuild 50 in tandem with Anabec’s Flame & Fire Retardant, A.F.F.R must be applied first.

Important: Please be sensitive to any fire sprinkler systems prior to the application of A.F.F.R. They must be covered to protect the sprinkler systems since A.F.F.R. goes on like a paint product.

- A.F.F.R. is Ready to Use Directly from the pail – **Do Not Dilute**, mixing is required.
- A.F.F.R. is sold in a 5-gal Bucket.
- A.F.F.R. has a 12-month shelf life. The product should be stored in a climate-controlled environment and should be kept from freezing.
- A.F.F.R. can be applied with an airless sprayer using a tip size of 0.015 as well as a brush or roller. Coverage rates of 300-500 sq ft/gal are best obtained when using an airless sprayer.
- A.F.F.R. should be applied in temperatures between 50° - 85°F, with relative humidity between 40 -70%.
- A.F.F.R. has a clear finish after applying.
- A.F.F.R. has a Class A flame spread classification rating on dimensional framing lumber. A.F.F.R.’s flame spread rating is 15.

- A.F.F.R. can be applied to plywood and composite wood with improvement for flame spread.

5.0 Application of Anabec Flame & Fire Retardant for New Construction (NOT FOGGABLE)

5.1 Moisture Content. Prior to the application of Anabec's Flame & Fire Retardant (A.F.F.R.) it is imperative that the contractor test for the moisture content of the building materials being treated. Recommended moisture levels for applying the Anabec Product Systems should be between 16-20% in the materials that are to be treated. Materials should be as dry as possible so that the surfaces absorb the product. The Anabec Systems products are designed and proven to effectively work at these percentages.

5.2 Work Area Access: Every worker or visitor entering the work area must have instructions and training in the potential hazards associated with exposure to chemicals. It is the responsibility of the contractor / workers to request the occupants to leave the work area while application of Anabec products is ongoing. If the occupant refuses to leave the work area the project should not continue. After the application of A.F.F.R. you can reoccupy the space in 30 minutes at minimum or after all airborne particles have dissipated.

5.3 Field Testing Verification: If field testing verification is required the following procedure should be followed. The test environment should be free of combustibles. Please have on hand a Class A fire extinguisher and/or a garden hose. The A.F.F.R. coating when applied for field test purposes required by the code official shall be performed as such in an outdoor environment at a reasonable distance free from combustible materials: Use kiln-dried dimensional framing lumber having a surface application of a finished dry mil coating of A.F.F.R. between 0.45 – 0.75 dry mil thickness. Allow the A.F.F.R. on the substrate to dry for 24 hours. This coated substrate will be compared to an uncoated substrate of kiln-dried material. These two substrates will be subjected simultaneously to a propane-fueled torch at a distance of 6 inches for a minimum of 10 seconds. After heating for 10 seconds, remove heat source from substrates. Observe each substrate. There will be an apparent visual difference between the A.F.F.R. coated substrate and the uncoated substrate.

Application Procedures for A.F.F.R.

- 1) A.F.F.R. is ready to use directly from the pail. No dilution is required prior to use.
- 2) Mixing is required prior to use. Aggressively mix using a drill with paint paddle attachment for 10 minutes, settling will require additional stirring.
- 3) It is required that the moisture content of the surfaces being treated is between 16-20%.
- 4) **Cover any materials that are not to be treated with poly prior to the application of A.F.F.R. (recommend 6 mil. poly). A.F.F.R. goes on like a paint and dries clear, so protection of all finished material is necessary. Examples would be sprinkler systems, windows, open electric connections, electronic components, and pneumatic valving, to name just a few.**
- 5) Check for material compatibility prior to application of A.F.F.R. A.F.F.R. is FBC System Compatible and is approved by Spears Manufacturing Company, Inc. for CPVC compatibility.
- 6) Prior to application, the substrates' surfaces shall be dry, clean, and free from loose debris, dirt, dust, oil, grease, and all other coatings such as paints, stains, and sealers.

Anabec Systems

- 7) A.F.F.R. is for use on “interior”, protected from the weather, dimensional framing lumber, plywood, and composite wood.
- 8) **If using A.F.F.R. in tandem with Anabec’s NewBuild 50, the following application sequence steps should be followed. Step 1: If there is any visible mold on the lumber (often called lumberyard mold) spot clean with Anabec’s Advanced Cleaning Solution Plus, allowing it to dry prior to step two. Step 2: Apply Anabec’s Flame & Fire Retardant (A.F.F.R.) and allow the A.F.F.R. to cure for 24 hours prior to the application of NewBuild 50. Cure times can vary based on ambient temperature and relative humidity conditions. Step 3: Apply Anabec’s NewBuild 50 after A.F.F.R. is fully cured.**
- 9) A.F.F.R. should be applied at a thickness of 5 mils wet with an airless sprayer (1700 PSI) using a spray tip size of 0.015, which will result in approximately 0.5 mils dry.
- 10) The treated space can be reoccupied in approximately 30 minutes after the last application or after all airborne particles have dissipated.
- 11) A.F.F.R. will be dry to the touch in approximately 2-4 hours and completely cured in approximately 24 hours depending on the ambient temperature and relative humidity conditions.
- 12) A recommended way to calculate the approximate amount of A.F.F.R. needed for a project is to take the footprint of the building and multiply it by 3 or 4 to get an estimate of the spray areas square footage. An average 5-gallon pail will get approximately 1,500 to 2,500 sf of coverage using an airless sprayer with the proper tip size (0.015). One gallon of A.F.F.R will cover approximately 300 – 500 square feet. This calculation is intended to provide the user with the approximate amount of product needed for a project. Product requirements will vary according to factors such as application method and surface condition.
- 13) Equipment cleanup requires soap and water, followed by a clean water rinse. This needs to be done immediately after the application is complete.
- 14) Personal protection and exposure controls should always be adhered to, and at a minimum, safety glasses with side-shields and protective gloves and impervious clothing should be worn. In case of insufficient ventilation, wear suitable respiratory equipment. Ensure adequate ventilation, especially in confined areas.
- 15) Personal cleanup may be with soap and water.

ASTM E84 testing data is available upon request.



NewBuild 50 Moisture Barrier

NewBuild 50 is approved by both “FBC” System Compatible (Lubrizol Advanced Materials) and Spears Manufacturing Company for use on CPVC.

“FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology.” “The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.”



Read the detailed instructions before applying the Anabec NewBuild 50 product. All instructions must be followed and documented for any Anabec warranty to be valid.

Instructions for the Application of NewBuild 50

NewBuild 50 is a moisture barrier product specifically designed for application to new unfinished building surfaces. Application of NewBuild 50 to new building materials creates an extremely durable moisture barrier to inhibit microbial activity on the surface of the materials. The active microbial fighting ingredient is silver nitrate. NewBuild 50 is a stand-alone penetrating moisture barrier. The NewBuild 50 product can serve as a primer for latex paints.

NewBuild 50 can be purchased in a clear, white, or blue tint that dries as a clear sheen or translucent white or blue finish.

5.0 Application of NewBuild 50 for New Construction (NOT FOGGABLE)

5.4 Moisture Content. Prior to the application of NewBuild 50 it is imperative that the contractor test for moisture content of the building materials being treated. Recommended moisture levels for applying the Anabec Product Systems should be between 16-20% in the materials that are to be treated. Materials should be as dry as possible so that the surfaces absorb the product. The Anabec Systems products are designed and proven to effectively work at these percentages.

5.5 Work Area Access: Every worker or visitor entering the work area must have instructions and training in the potential hazards associated with exposure to microorganisms. It is the responsibility of the contractor / workers to request the occupants to leave the work area while application of Anabec products is ongoing. If the occupant refuses to leave the work area the project should not continue.

Anabec Systems

5.6 NewBuild 50 is a penetrating moisture resistant barrier that provides long-term protection against the stronger strains of mold. NewBuild 50 is intended for applications to new building materials only. New Build 50 is available in clear, translucent white and blue tints.

Application Procedures for NewBuild 50

- 16) Perform preliminary testing – See Surface Testing Requirements for Warranties on Page 16.
- 17) NewBuild 50 is ready to use directly from the pail. No dilution is required prior to use.
- 18) Mixing is required prior to use. Use a drill with paint paddle attachment to stir product for 2-5 minutes, settling may require additional stirring.
- 19) If adding tints, additional stirring of approximately 15 minutes (particularly with white) may be required for complete homogenization. Please call the office for tinting instructions.
- 20) It is required that the moisture content of the surfaces being treated is between 16-20%.
- 21) **Cover any materials that are not to be treated with poly prior to application of NewBuild 50 (recommend 6 mil poly). NewBuild 50 goes on like a paint and dries with a sheen, so protection of all finished material is necessary. Examples would be sprinkler systems, windows, open electric connections, electronic components, and pneumatic valving, to name just a few.**
- 22) Check for material compatibility prior to application of NewBuild 50.
- 23) Prior to application remove trash from the work area and if appropriate, hepa vacuum the entire area to remove dust / dirt from the surfaces to be treated.
- 24) **If there is any visible mold on the lumber (often called lumberyard mold) spot clean with Anabec's Advanced Cleaning Solution Plus before applying NewBuild 50.**
- 25) A recommended way to calculate the approximate amount of NewBuild 50 needed for a project, is to take the footprint of the building and multiply it by 3 or 4 to get an estimate of the spray areas square footage. An average 5-gallon pail will get approximately 4,000 to 5,000 sf of coverage using an airless sprayer with the proper tip size (.015) and not over spraying. One gallon of NewBuild 50 will cover approximately 800 – 1,000 square feet. This calculation is intended to provide the user with the approximate amount of product needed for a project. Product requirements will vary according to factors such as application method and surface condition.
- 26) Spray all areas with NewBuild 50 using an airless sprayer including all 90-degree angles where framework meets floorboards and plates. Be sure to spray walls that will be containing plumbing, underside of roofs, door jams, crawl spaces, or any area sensitive to moisture intrusion. Do not saturate the surface. The recommended tip size for the airless sprayer is .015. It is recommended that a light coat of NewBuild 50 be applied at approximately 1.5 to 2.0 wet mils per gallon of product. Surfaces should be dry to the touch in approximately 1-2 hours and totally dry in 24 -48 hours.
- 27) Windowsills and headers are major mold growth starting points. It is preferred that windows not be installed before applying NewBuild 50. If the windows are already in place be sure to properly cover the window glass.
- 28) Equipment cleanup requires soap and water or Simple Green, followed by a clean water rinse. This needs to be done immediately after application.
- 29) Coverage of NewBuild 50 is approximately 800 – 1,000 square feet per gallon using an airless sprayer.
- 30) Shelf Life: 18 months in a climate-controlled environment.



Anasphere Plus™

A complete booklet of Directions for Use Label for Anasphere Plus™ can be found on Anabec's website; anabec.com. Go to the products tab, commercial cleaning products, Anasphere Plus and under Product Info find the Master Label.



IMPORTANT: Anasphere Plus is NOT FOR USE ON CPVC Piping and Fittings

Anasphere Plus™ is an EPA registered hospital grade disinfectant, detergent, fungicide, bactericide, virucide and mildewstat. Anasphere Plus™ offers the best science the world has to offer. Anasphere Plus™ is effective against most pathogens currently affecting the world. Anasphere Plus™ has over 140 kill claims, including but not limited to; Hepatitis B & C virus, Herpes Simplex type 1 & 2 virus, HIV-1 (AIDS virus), MRSA, Influenza (All Strains), Measles virus, Noro virus and many more. Anasphere Plus™ can be used as a stand-alone product or can be applied after cleaning the surface with the Advanced Cleaning Solution Plus. Anasphere Plus™ is a concentrate and is mixed according to the appropriate dilution rates listed in the Master Label for the specific cleaning or disinfecting project. Anasphere Plus™ may be used on washable hard non-porous surfaces.

Anasphere Plus™ can be used in the following areas to name just a few; Water Damage Restoration, Smoke Damage Restoration, Disinfection/Fungicidal/*Virucidal*, Cleaning and Decontamination against HIV-1, HCV & HBV on Surfaces/Objects Soiled with Bloody/Body Fluids, General Deodorization, Mold & Mildew Control, Disinfect Toilet Bowls, Poultry (and Swine) Premise Sanitation Site Preparation, Farm Premise Disinfection, Veterinary Clinics/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and grooming Establishment/Tack Shops Disinfection, Sanitizing Incubators and Hatchers, Commercial Florist Use, Laundry Additive (Residual Bacteriostatic and Residual Self Sanitizing Activity under Conditions of High Relative Humidity or Wet Contamination) Against Odor-Causing Bacteria for Institutional, Industrial and Hospital Use, Odors Caused by Dogs, Cats and Other Domestic Animals, Carpet Deodorizer Against Odor-Causing Bacteria, for Home, Institutional, Industrial and Hospital Use, Salon Barber Instruments and Tools Sanitizer, Shoe Bath Sanitizer and Food processing Plants.

1. **Precleaning:** To achieve the best results, Anabec recommends pre-cleaning heavily soiled surfaces with Anabec's Advanced Cleaning Solution Plus. Failure to pre-clean heavily soiled surfaces will diminish Anasphere Plus's™ effectiveness.
2. **Mixing:** Refer to the Anasphere Plus™ Master Label for specific application mixing concentrations. The Master Label is included with your purchase or can also be found on the Anabec website; anabec.com.
3. **Labeling:** For product control, secondary bottles of ready to use Anasphere Plus™ should be labeled with the contents but do not need a complete pesticide label. To remain in compliance with regulations, the ready to use mixture of Anasphere Plus™ cannot be distributed, sold, or left behind with a customer.

4. **Safety:** Anasphere Plus™ as a concentrate and is corrosive in the concentrated form. Anasphere Plus™ may cause skin and eye irritation. Anasphere Plus™ is harmful if swallowed. When mixing and applying Anasphere Plus™, take precautions, such as; PPE (gloves, safety glasses, respiratory protection and disposable full body clothing) to avoid skin or eye contact. If spraying or fogging, respiratory protection is necessary to avoid breathing in the mist. Refer to both the product SDS and the Master Label for a complete list of hazard identifications and first aid measures. Consult with your corporate health and safety personnel for further guidance.
5. **Materials Compatibility:** Ensure sensitive building materials, furnishings and any other sensitive materials are either protected or verified compatible with the Anabec products by testing small inconspicuous areas and checking with material manufacturers. Items of concern include certain types of plastics, including CPVC piping and fittings, electronics, and non-colorfast fabrics.
6. **Airless Sprayer Application:** Spray a light coat of Anasphere Plus™ to the walls, ceilings, floors, and inanimate objects using an airless sprayer until all of surfaces are thoroughly wet. The recommended tip size for the airless sprayer is .011. Refer to the Master Label for a complete list of instructions for use of Anasphere Plus™ including the required time that the surfaces must remain wet.
7. **Fogging Application:** When using a fogger, contain the space to be fogged, fog the space with Anasphere Plus™ until all surfaces are thoroughly wetted. Refer to the Master Label for a complete list of instructions for use of Anasphere Plus™ including the required time that the surfaces must remain wet. Allow 2 hours for the fog to dissipate before entering the space without PPE. When using a commercial fogger an Electric Ultra-Low –Volume (ULV) or Thermal Fogger works well.
8. **Clean-up:** Equipment clean up requires clean water only.

Refer to the full product Master Label for a complete list of the EPA approved applications and instructions for Anasphere Plus™.



Anafresh Deodorizer

Read detailed instructions before applying the Anabec Anafresh product.

Instructions for the Application and Use of Anafresh

Anafresh is a concentrated deodorizer that is a safe and effective tool for eliminating tough odors caused by disasters. The concentrate is designed to target and completely neutralize the odors left behind by fires, smoke, flooding, tobacco, sewer backflow cleanup, laundry, textiles, mold, and mildew. Anafresh is formulated with a proprietary blend of 100% Biodegradable essential oils, is water soluble and has a neutral pH. The product is safe for use on all types of finished and unfinished building materials, furnishings, and textiles.

The concentration of this product must meet or exceed the concentration of the odor molecule to be fully effective. If the odor persists after the first application, it may be necessary to apply a second application to the affected areas. Anafresh must come into contact with the offensive odor source to be effective.

1. **Precleaning:** To achieve the best results Anabec recommends pre-cleaning heavily soiled surfaces with an appropriate cleaning agent.
2. **Mixing:** For most odors mix 2 – 8 ounces of the Anafresh with 1 gallon of clean water or add to a cleaning detergent. **DO NOT** mix with bleach-based cleaners. This will significantly diminish the effectiveness of the product. Below are some of the recommended solution concentrations:
 - Fire Damaged Surfaces: 8 oz. per gallon
 - Smoke Residue on Surfaces: 4 oz. per gallon
 - Water / Flood Restoration: 2 – 4 oz. per gallon
 - Mold and Mildew: 2 - 4 oz. per gallon
 - Sewer Backflow: 2 – 4 oz. per gallon
 - Tobacco Odors: 2 – 4 oz. per gallon
 - Laundry and Textiles: 2 – 4 oz. per gallon
3. **Labeling:** For product control, secondary bottles of ready to use Anafresh should be labeled with the contents.
4. **Safety:** Anafresh is a concentrate and may cause temporary eye irritation. May also cause an allergic skin irritation. Use personal protective equipment P.P.E. as required. Anafresh is packaged and intended for commercial use. Completely review the SDS and Product Label prior to use.
5. **Materials Compatibility:** Ensure sensitive building materials, furnishings and any other sensitive materials are either protected or verified compatible with the Anabec products by testing small inconspicuous areas and checking with material manufacturers. Items of concern include certain types of plastics, including CPVC piping and fittings, electronics and non-colorfast fabrics.

Anabec Systems

6. **Airless Sprayer Application:** Spray a light coat of Anafresh to the affected areas. The recommended tip size for the airless sprayer is .011. Anafresh should be left on the surface to dry. If the odor of Anafresh persists after application, the concentration of the solution was too high. Clean equipment with clean water.
7. **Fogging Application:** When using a fogger, contain the space to be fogged, fog the space with Anafresh until all affected areas have been treated. Anafresh should be left on the surface to dry. If the odor of Anafresh persists after application, the concentration of the solution was too high. Clean equipment with clean water. Thermal Foggers cannot be used with Anafresh. When using a commercial fogger an Electric Ultra-Low –Volume (ULV) fogger should be used.
8. **Bucket / Rag or Mop:** When applying with a rag or mop, thoroughly wet the rag or mop and apply to the surface, ensuring the surface is wet. Wipe until damp. Anafresh should be left on the surface to dry. If the odor of Anafresh persists after application, the concentration of the solution was too high.
9. **Sprayer Application:** When using handheld sprayers, use a coarse pump or trigger sprayer. Spray 6-8 inches from the surface until damp. Anafresh should be left on the surface to dry. If the odor of Anafresh persists after application, the concentration of the solution was too high.
10. **Clean-up:** Equipment clean up requires clean water only.
11. **Shelf-Life:** Both the concentrate and the Ready-to-use solution will remain viable for an indefinite period.

Refer to the product label for complete application / instructions.

Miscellaneous Information on All Products: Including but not limited to; Materials Compatibility, Equipment, Safety, PPE, and Shelf Life

1. Materials Compatibility:

Systems Stain Remover, X70, X90, Anasphere Plus™ and Anafresh - Ensure sensitive building materials, furnishings and any other sensitive materials are either protected or verified compatible with the Anabec products by testing small inconspicuous areas and checking with material manufacturers. **A known material incompatible with the Systems Stain Remover S.S.R., X70, X90, Anasphere Plus and Anafresh is Chlorinated Polyvinyl Chloride (CPVC). CPVC is frequently used in newer sprinkler systems and plumbing supply lines. Anabec's previous product; The Advanced Cleaning Solution is also not approved for use on CPVC piping and fittings.** Other items frequently found in an unfinished construction space that likely need special attention include; open electric connections, electronic components and pneumatic valving. Items frequently found in finished spaces that require protection from the Advanced Cleaning Solution Plus, Systems Stain Remover, X-70, X-90, Anasphere Plus™ and Anafresh include, but are not limited to; non-colorfast fabrics, silk fabric, oriental carpeting, antique furnishings, paintings, and artwork to name just a few. The Systems Stain Remover is a corrosive sodium hypochlorite solution and care should be taken when applying to surfaces, as well as the surrounding area. X70 and X90 should not be applied to interior finished spaces, furnishings, or any fabrics since the make-up of these products is like acrylic paint.

Anabec Systems

The Advanced Cleaning Solution Plus – The Advanced Cleaning Solution Plus (Clear or Blue Tint) is suitable for finished and un-finished building materials and is approved by FBC - "FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology." "The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates." As stated above, any surface that is suspect to compatibility should be tested in an inconspicuous spot. Please note, the Advanced Cleaning Solution Plus is NOT approved with Spears Manufacturing for CPVC.

NewBuild 50 - NewBuild 50 (Clear, White or Blue Tint) is suitable for any product type that can be painted with an acrylic paint. Items frequently found in unfinished construction spaces that likely need special attention include open electric connections, electronic components, and pneumatic valving. NewBuild 50 should not be applied to interior finished spaces, furnishings, or any fabrics. NewBuild 50 is approved by FBC - "FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® piping systems and products made with TempRite® Technology." "The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates." NewBuild 50 is also approved by Spears Manufacturing for use on CPVC.

2. **Equipment:** Some basic equipment for mold remediation when applying the Anabec Product System:

- Moisture meter
- HEPA-vacuum
- Negative air machine
- Pump Sprayer
- Electric Airless Sprayer
- Fogger
- Foamer
- Drying / Dehumidification Equipment
- Containment Materials
- Course Nylon Brushes
- Safety / Warning Signs
- Appropriate Respiratory Protection
- Appropriate PPE
- Surface Testing Kit / Supplies
- Poly Sheeting
- S.S.R. must be used in a corrosive friendly pump-up sprayer.

3. **Worker Safety:** All safety regulations as per OSHA, or any other governing body, must be followed throughout the procedure. All workers handling the Anabec products must have successfully completed the Anabec on-line training and reviewed the pertinent product SDS. Workers should confer with their corporate Health and Safety personnel for further guidance.

4. **Personal Protective Equipment (PPE):** PPE shall comply with the OSHA requirements. Anabec suggests full body disposable coverall, full-face positive air purifying respirators with HEPA filtrations and disposable nitrile gloves. Workers should refer to their corporate respirator protection plan, corporate Health and Safety personnel and the applicable SDS for further guidance.

5. **Temperature:** When applying the Anabec Product System the air temperature should be above 40 degrees Fahrenheit to prevent freezing of product. Anabec products should be stored in a climate-controlled environment.



6. **Warranty:** Warranties may be offered by Qualified Contractors who participate in the Anabec Corporate Warranty Program. A completed original warranty, checklist, photo documentation and laboratory testing must be submitted to the Anabec corporate office for validation. All warranty paperwork must be received within 3 weeks of project completion. Contractors may offer warranties once they have completed the due diligence to become a qualified Anabec Contractor as described below.
7. **Shelf Life:** The Advanced Cleaning Solution Plus has a shelf life of 12 months, X70, X90 and NewBuild 50 have a shelf life of 18 months from the date of manufacture. The Systems Stain Remover S.S.R, has a shelf life of 4 months from the date of manufacture. Anasphere *Plus*[™] and Anafresh have an indefinite shelf life from the date of purchase in their concentrated state.
8. **Cleaning Equipment:** To ensure the longevity of equipment and to prevent clogging, it is recommended to thoroughly clean all equipment with warm soapy water or Simple Green after each application of the Anabec Product System. After the application of the Advanced Cleaning Solution Plus, be sure to flush out the equipment system before using X70, X90 or New Build 50. It is recommended to thoroughly clean your equipment immediately after the use of X70, X90 or New Build 50 with warm soapy water or Simple Green.

Anabec's Corporate Warranty Program for Qualified Contractors

Contractors interested in participating in the Anabec Corporate Warranty Program must:

- Have all applicators watch the Anabec, Inc. Product Training video and complete the Test with passing results. The Product Training video can be found on Anabec.com, then under the contractor's tab, choose Anabec Inc. Product Training.
- Routinely purchase Anabec, Inc. products.
- Provide Anabec, Inc. with an insurance certificate with the following requirements:
 1. The contractor will maintain the insurance coverage to include at a minimum \$1 million in General Liability Insurance and list Anabec, Inc. as the Certificate Holder and as an Additional Insured on a primary and non-contributory basis. The additional insured endorsement will also include ongoing and completed operations. Proof of this insurance must be on file at Anabec's Corporate office.
 2. Workers' Compensation certificate (if required in your state)

Anabec's Thirty Year Post Remediation Warranty

This warranty extends for a period of thirty years from the date of application of the Advanced Cleaning Solution Plus and Anabec's X70 or X90 moisture barrier products when applied by an Anabec Qualified Contractor.

- Anabec Advanced Cleaning Solution Plus and Anabec's X70 or X90 must be applied according to Anabec's Remediation Warranty Instructions and industry accepted standards for mold remediation.
- Anabec Trained Technicians must be used for all applications of the Anabec products.
- Competitive brand products cannot be used or mixed with Anabec System products.
- The material on which Anabec Products are applied must be structurally sound and compatible with the Anabec products.

- Quantitative (not Qualitative) pre and post application surface testing must be performed for all mold remediation projects according to the requirements that follow in the surface testing requirements of this instruction booklet.
- It is important to read the warranty form in full and complete all sections of the warranty.
- Additional submittals are required with the warranty, such as photos, testing results and chain of custody documents.

Anabec's Fifty Year New Construction Warranty

This warranty extends for a period of fifty years from the date of application of NewBuild 50 moisture barrier product when applied by an Anabec Qualified Contractor.

- Anabec NewBuild 50 must be applied according to Anabec's General Instructions.
- Any evidence of mold growth on the new/untreated building material must be spot cleaned using Anabec's Advanced Cleaning Solution Plus.
- Anabec Trained Technicians must be used for all applications of the Anabec products.
- Competitive brand products cannot be used or mixed with Anabec System products.
- The material on which Anabec Products are applied must be structurally sound and compatible with the Anabec products.
- Quantitative (not Qualitative) surface testing must be performed for all mold remediation projects according to the requirements that follow in the surface testing requirements of this instruction booklet.
- It is important to read the warranty form in full and complete all sections of the warranty.
- Additional submittals are required with the warranty, such as photos, testing results and chain of custody documents.

Warranty forms for both the 30-year post remediation and the 50-year new construction warranty can be found on the Anabec.com website under the contractor tab. In addition to the forms, a warranty checklist is also available to be used when compiling your final submittals to Anabec. All submittals must be mailed to Anabec's corporate headquarters at PO Box 433, Clarence, NY 14031 for final review and authorization. If in order and signed off by Anabec, the original warranty with all final signatures will be mailed back to the contractor to forward to their customer. A copy of the warranty with all submittals will be kept on file with Anabec.

Surface Testing Requirements for Warranties

1. **Surface Testing Requirements for Advanced Cleaner Plus and X70 or X90:** Preliminary and Post surface testing is required for warranty validation. Anabec promotes that an independent environmental consultant takes the surface samples. If the samples are taken by the contractor, the homeowner must sign the chain of custody and warranty form stating that they watched the samples being taken. An accredited, independent third-party laboratory is required to perform testing. All testing done by the independent laboratory must be **QUANTITATIVE** Testing results, not qualitative. The requirements for each Anabec Product System are outlined below:

Testing Requirements

A minimum of three surface lift tape tests should be taken per containment area or 1000 square feet of floor space. For projects over 1000 square feet of floor space an additional 1 sample per 1000 square feet is required (see Table I). Preliminary and post samples should be taken at the same specific site with little variance. Suggested areas to test: Each room treated: ceiling, wall, and carpet/floor. Attic: roof decking, rafters. Basement: sub-flooring, joists, foundation walls. Perform post testing 48 hours after completion of remediation.

**Table I
Lift Tape Testing Requirements
for Mold Remediation Projects**

Square Footage	# Pre-Samples	# Post Samples
0 to 1000 SF	3	3
>1000 to 2000 SF	4	4
>2000 to 3000 SF	5	5
>3000 to 4000 SF	6	6
Etc.....		

- 2. Surface Testing Requirements for NewBuild 50.** Preliminary surface testing is required for warranty validation. Anabec promotes that an independent environmental consultant takes the surface samples. If the samples are taken by the contractor, the homeowner must sign the chain of custody and warranty form stating that they watched the samples being taken. An accredited, independent third-party laboratory is required to perform testing. Testing requirements for NewBuild 50: A minimum of three surface lift tape tests should be taken per 10,000 square feet of treated area prior to the application of NewBuild 50. For projects over 10,000 square feet of treated area an additional 1 sample per 5,000 square feet is required (see Table II).

**Table II
Lift Tape Testing Requirements
For Prevention Projects**

Square Footage	# Pre-Samples
0 to 10,000 SF	3
>10,000 to 15,000 SF	4
>15,000 to 20,000 SF	5
>20,000 to 25,000 SF	6
>25,000 to 30,000 SF	7
>30,000 to 35,000 SF	8
etc....	



Please contact Anabec if you have any additional questions when using our products at 716-759-1674 or toll free at 800-369-8463. You can also find information including SDS's, Warranty Forms, Free On-Line Training Video, General Instructions, and product information on our website at www.anabec.com.

Explanation of Anabec Transferrable Warranties

The following transferrable warranties are available when using the Anabec Systems products as follows:

1. 30-year transferable warranty when using the Advanced Cleaning Solution Plus and the X70 or X90 moisture barrier. Please note that the remediation and application of the Anabec products must be completed by an Anabec Trained and Certified Contractor, who participates in the Anabec Corporate Warranty Program.
2. 50-year transferable warranty when using the Advanced Cleaning Solution Plus and the New Build 50 moisture barrier. Please note that the remediation and application of the Anabec products must be completed by an Anabec Trained and Certified Contractor, who participates in the Anabec Corporate Warranty Program.

Transferability

Upon change in ownership, it is the responsibility of the new property owner to contact Anabec, Inc. within 30 days of the final closing date, to start the transfer process. At this time, Anabec will contact the Qualified Contractor for a complete re-inspection of the building and perform new surface testing. The contractor reserves the right to charge an appropriate fee for this service. If everything is in order, the warranty will be transferred into the new owner's name and will cover the remaining years of the original warranty that was signed by Anabec, Inc.