

Anabec Systems

www.Anabec.com

800.369.8463

Advanced Cleaning Solution Plus

THE CLEANER

Advanced Cleaning Solution Plus, is the cornerstone of the Anabec System. It 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. Advanced Cleaning Solution Plus mechanically removes organic debris and is very effective for use in residential, commercial and institutional facilities.

General Characteristics:

- Ready to use
- pH neutral
- Peroxide based formula

Color:

- Clear

Coverage:

-800-1000 sq ft / gallon



"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[®] pipe and fittings. FBC[™], FlowGuard Gold[™], BlazeMaster[®] and Corzan[®] are licensed trademarks of The Lubrizol Corporation or its affiliates."

Choose the **Anabec System** Better Chemistry. Superior Results.

Advanced Cleaning Solution Plus THE CLEANER

Product Info

Classification
Key Ingredient(s)

Cleaner
Hydrogen Peroxide
Quaternary Ammonium Chlorides

Packaging

Packaged	5 gal 55 gal
Color as Packed	Clear
Shelf Life	12 months
Storage	Do not Freeze Do not Repackage Store out of reach of children

Properties

Odor	Faint ammonia
pH	6.8-7.3
Viscosity	1 cps (water thin)
Density	8.35 lbs / gal
Flash Point	> 100 C
Est VOC	< 0.1 lbs / gal
Phosphate Content	Zero
Foaming	Low
Solubility in Water	Complete
Biodegradability	99%

Application

Dilution	Ready to use
Coverage up to	1000 sq ft / gal
EPA Registered	No
Air Less Sprayer	Yes
Trigger Sprayer	Yes
Foggable	Yes
Mop Bucket	No
Soaking	No

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SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT NAME: 8839 ANABEC ADV CLEANING PLUS

PRODUCT NUMBER: 018839

SYNONYMS: Hydrogen Peroxide/Aqueous Mixture

CAS NUMNER: Mixture

RECOMMENDED USE: Hydrogen Peroxide Cleaning Solution


COMPANY INFORMATION: Anabec, Inc.
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SECTION 2 – HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Skin Irritation – 2

SIGNAL WORD: WARNING

HAZARD PICTOGRAMS: 

HAZARD STATEMENTS: CAUSES MILD SKIN IRRITATION

PRECAUTIONARY STATEMENTS:

PREVENTION: Read label before use. Keep/store away from heat, hot surfaces, sparks, open flames and other ignition sources. Use only non-sparking tools. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Use only in a well-ventilated area. Wear protective gloves and eye protection. In case of inadequate ventilation, wear respiratory protection.

RESPONSE: If swallowed, do NOT induce vomiting. Get medical attention. If on skin, rinse with plenty of water. If symptoms persist, get medical attention. If inhaled: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get medical attention. If in eyes, rinse thoroughly for 15 minutes. Remove contact lenses and continue washing. Get medical attention. If on clothing, wash before reuse. In case of a fire, fight fire with normal precautions from a reasonable distance.

STORAGE: Store in a closed container. Keep in a cool well-ventilated place.

DISPOSAL: Dispose contents in accordance with federal, state, and local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**SUBSTANCE/MIXTURE:**

INGREDIENT	PERCENT COMPOSITION	CAS NUMBER
N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride	< 2%	68424-85-1
Hydrogen Peroxide	< 2%	7722-84-1

SECTION 4 – FIRST-AID MEASURES**IF INHALED:**

Remove to fresh air. If not breathing or breathing is difficult, give oxygen or artificial respiration and get medical attention. Do not perform CPR.

IF SKIN CONTACT:

Immediately wash skin with mild soap and large volumes of water. Remove contaminated clothing. Wash clothing before reuse. Get medical attention if symptoms persist.

IF EYE CONTACT:

Thoroughly flush eyes with large volumes of clean, low pressure water for at least 15 minutes while holding eyelid open. Remove contact lenses, if worn, after initial flushing and then continue flushing. Get immediate medical attention.

IF SWALLOWED:

Rinse mouth with water. Drink water. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

Water fog or spray, alcohol resistant foam, dry chemical, carbon dioxide.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water in a tight stream.

SPECIFIC FIREFIGHTING HAZARDS:

If possible, keep nearby containers cool. Heat may build enough internal pressure to rupture a closed container, potentially spreading the fire and increasing risk. Oxides of carbon and other possible toxic solids, vapors, and/or gases may be emitted.

SPECIAL FIREFIGHTING EQUIPMENT/PROCEDURE:

Wear full protective clothing and self-contained breathing apparatus or air mask. Fight large fires from a safe distance. If possible do not allow discharge runoff into the water environment.

SECTION 6 – ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPEMENT:**

Handle in accordance with good industrial hygiene and safety practice. Use chemical resistant gloves and safety glasses with side shields or goggles. To prevent contact with skin, wear clothing covering all exposed areas.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP/EMERGENCY PROCEDURE:

Ventilate the area. Avoid breathing dust or vapor. Use a self-containing breathing apparatus or air mask for larger spills. Remove all sources of sparks or ignition. Clean and dispose contaminated area into an appropriate disposal container.

SECTION 7 – HANDLING AND STORAGE**HANDLING:**

Handle in accordance with good industrial hygiene and safety practice. Do not smoke near chemicals.

STORAGE:

Keep in cool, well-ventilated area away from any source of heat, sparks, or open flames. Keep container sealed tight when not in use. Ensure proper labeling on the container.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION**INGREDIENTS:**

INGREDIENT	OSHA	ACGIH	CERCLA RQ	SARA 302 EHS	SARA 313	HUMAN CARCINOGEN
N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride	No data	No data	None Listed	No	No	No
Hydrogen Peroxide	TWA 1.4 mg/m3	TWA 1.4 mg/m3	None Listed	No	No	No

RESPIRATORY PROTECTION:

Wear proper safety glasses and gloves. Avoid using contact lenses.

PROTECTIVE CLOTHING:

Wear clothes that protect from exposed skin. Clothing should be removed and washed after chemical usage.

VENTILATION:

Ensure that the area of usage is properly ventilated. If local exhaust ventilation system is not adequate, use a respiratory protection program.

ADDITIONAL MEASURES:

Wash hands before eating, drinking, smoking or using toilet facilities. Proper eyewash and safety shower facilities should be available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Colorless
ODOR:	Faint ammonia
ODOR THRESHOLD:	No data available
pH:	6.8-7.3
MELTING POINT/FREEZING POINT:	No data available
BOILING POINT/RANGE:	212°F
FLASH POINT:	Non Combustible
EVAPORATION RATE:	No data available
LOWER EXPLOSIVE LIMIT:	No data available
UPPER EXPLOSIVE LIMIT:	No data available
VAPOR PRESSURE:	No data available
VAPOR DENSITY:	No data available
SPECIFIC GRAVITY:	1.0049
SOLUBILITY IN WATER:	Yes
SOLUBILITY IN OTHER SOLVENTS:	No data available
PARTITION COEFFICIENT (N-OCTANOL/WATER):	No data available
AUTO-IGNITION TEMPERATURE:	No data available
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	No data available
VOC:	<0.1 lbs./gal

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions of use
HAZARDOUS POLYMERIZATIONS:	None anticipated under normal conditions of use
HAZARDOUS DECOMPOSITION PRODUCTS:	None expected
CONDITIONS TO AVOID:	Keep away from heat, sparks, open flame, static electricity, and all ignition sources.
INCOMPATIBLE MATERIALS:	Oxidizers

SECTION 11 – TOXICOLOGICAL INFORMATION

MEDICAL CONDITION AGGRAVATED:	Pre-existing medical conditions in the following systems or organs may be aggravated by exposure to this product: Skin (dermatitis), eyes, liver, kidneys, nervous system, respiratory system (asthma, lungs). Repeated or prolonged exposure could produce target organ damage.
INHALATION:	High concentrations may lead to Central Nervous System effects, including drowsiness, dizziness, nausea, headaches, paralysis, and possible unconsciousness. High vapor concentrations are irritating to the respiratory system and the eyes. Prolonged or repeated exposure may cause liver or kidney damage.

INGESTION:	Product may be harmful or fatal if swallowed, as well as produce potential lung damage. It may produce Central Nervous System effects including dizziness, loss of balance and coordination, coma, or even death. It also is an irritant to the mouth, throat, and stomach.
EYES:	The product will potentially cause moderate to significant eye irritation.
SKIN:	Contact with the solution may cause mild to moderate skin irritation. Repeated contact may result in defatting and drying/cracking of the skin, which could result in significant skin irritation and dermatitis (rash). Skin absorption may produce systemic toxicity.

SECTION 12 – ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:	No data available
BIOACCUMULATIVE POTENTIAL:	No data available
MOBILITY IN SOIL:	No data available
OTHER ADVERSE EFFECTS:	No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	Dispose of in accordance with federal, state and local regulations.
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SECTION 14 – TRANSPORT INFORMATION

UN NUMBER:	None Available
UN PROPER SHIPPING NAME:	Not Regulated
TRANSPORT HAZARD CLASS:	Not Regulated
PACKING GROUP:	Not Regulated

SECTION 15 – REGULATORY INFORMATION

TSCA STATUS:	All known components of this product are listed or are exempt from listing.
SARA SECTION 311/312:	
ACUTE:	No
CHRONIC:	No
FIRE:	No

REACTIVE: No
PRESSURE RELEASE: No

HMIS HEALTH: 1
HMIS FLAMMABILITY: 0
HMIS REACTIVITY: 0
HMIS PERSONAL PROTECTION: X

SECTION 16 – OTHER INFORMATION

SDS REVISION DATE: November 30, 2018
SDS REVISION NUMBER: 1

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Instructions for Use of the Anabec Systems Products

Instructions for the Application of the Advanced Cleaning Solution (The Cleaner), Advanced Cleaning Solution Plus (FBC Approved) , Systems Stain Remover (S.S.R.) and X70 or X90 Barrier	Pages 1 – 5
Instructions for the Application of New Build 50 (Spot cleaning when necessary with The Cleaner).	Pages 6 – 7
Instructions for the Application and Use of Anasphere <i>Plus</i> (Anasphere <i>Plus</i> Replaced Anasphere as of 10/2017)	Pages 8 – 9
Instructions for the Application and Use of Anafresh	Pages 10 – 11
Miscellaneous Information All Products: Including but not limited to; Materials Compatibility, Equipment, Safety, PPE and shelf life.	Pages 11 – 13
Surface Testing Requirements for Warranty	Pages 13 – 14
Explanation of Anabec transferrable warranties	Page 14 - 15

Advanced Cleaning Solution, **Advanced Cleaning Solution Plus (FBC Approved)¹**, Systems Stain Remover 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.

¹ Anabec's **Advanced Cleaning Solution Plus** is approved by FBC and is safe for use on CPVC piping.

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Instructions for the Application of the Advanced Cleaning Solution (The Cleaner), **Advanced Cleaning Solution Plus (FBC Approved)**, Systems Stain Remover (S.S.R.) and X70 or the X90 Barrier Product in a Microbial Abatement Setting

The Advanced Cleaning Solution and the **Advanced Cleaning Solution Plus**, are the cornerstone of the Anabec System, and are hydrogen peroxide-based products. Useful for finished and unfinished building materials, these multi-purpose cleaners, are often the first step in the Anabec System. The Advanced Cleaning Solution and the **Advanced Cleaning Solution Plus** mechanically remove organic debris and are 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 or the **Advanced Cleaning Solution Plus** and lastly, the appropriate barrier.

IMPORTANT: The Advanced Cleaning Solution is NOT FOR USE ON CPVC Piping and Fittings only the Advanced Cleaning Solution Plus is approved.

X70 or X90 is the second or third step in the Anabec System of Products depending on whether the Systems Stain Remover 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. 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 that dries as a clear sheen or translucent white or blue finish. X90 is a solid white and dries as an opaque 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 the contractor test for moisture content of the building materials being treated. Recommended material moisture levels for applying the Anabec Product Systems should be 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 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 the 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.

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- 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 for removing stubborn staining. **Please Note: This is a cosmetic product only. For remediation projects, the Advanced Cleaning Solution 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 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. Read full product labeling for First Aid and other important production information. Personal Protective Equipment (P.P.E.) should include full dermal protection and a respirator with an organic filter. Wear protective gloves, protective clothing, eye protection and face protection.
- 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 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.

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3.0 Advanced Cleaning Solution and Advanced Cleaning Solution Plus Application Procedures

3.1 Application Procedures: These procedures are for the application of the Advanced Cleaning Solution and 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 guideline 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 12-13.
- 2) Set up Containment system with negative air
- 3) Turn on 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 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 is warranted.
- 6) The Advanced Cleaning Solution and the Advanced Cleaning Solution Plus are ready to use directly from the pail. No dilution or mixing is required prior to use, except for, carpet applications (see section 3.2.5).
- 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 material.
- 8) Apply the Advanced Cleaning Solution or the Advanced Cleaning Solution Plus to the contaminated materials using an airless sprayer, pump sprayer or foamer. The recommended tip size for the airless sprayer is .011.
- 9) If warranted, fog the air in the entire room with the Advanced Cleaning Solution or 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 Anabec products.
- 10) Allow approximately 30 minutes for fogging to dissipate before applying X70 or the X90 per the guidelines provided below.
- 11) Coverage of the Advanced Cleaning Solution and the Advanced Cleaning Solution Plus is approximately 800 – 1,000 square feet per gallon.
- 12) Shelf Life: 12 months in a climate-controlled environment.
- 13) Clean up: Soap and water or Simple Green.

3.2 Guidelines for application of the Advanced Cleaning Solution and 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 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 tile is 800-900 square feet per gallon.

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- 3) **Plenums:** The plenum (airspace above the drop ceiling) should be fogged with the Advanced Cleaning Solution or 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. 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 or the **Advanced Cleaning Solution Plus**. Any surface that is treated should be tested for color fastness prior to application. In most cases a wipe down 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:** Carpets that are heavily soiled or test high in contamination should be removed and disposed. 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 or the **Advanced Cleaning Solution Plus** and three parts water). The extractor should be capable of 100-psi delivery and 95 percent extraction. A slow walking speed by the applicator is essential for maximum coverage and penetration. Industrial fans must be placed at strategic locations to enhance the drying process. Carpet must be rinsed with warm water in the extractor. Average coverage of industrial carpet is 650-800 square feet per gallon. Not recommended for silk and/or fine oriental carpeting.

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

- 1) Anabec's X70 and X90 are penetrating moisture resistant barriers that provides long-term protection against the stronger strains of mold. X70 and X90 can be applied to any building surface; however, it does leave a noticeable sheen, and is therefore appropriate for only raw building materials. X70 and X90 are a water-based latex penetrant and are recommended for unfinished surfaces such as wood, brick, block and drywall. X70 is available in clear and translucent white, 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 2-3 minutes for X70 and up to 10 minutes for X90. If adding tint to the product stir times require upwards of 15 minutes.
- 4) After treatment of the Advanced Cleaning Solution, 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.
- 5) Surfaces should be dry to the touch within 2 hours.
- 6) Equipment clean up requires soap and water or Simple Green followed by a clean water rinse and needs to be done immediately after application.
- 7) Perform post testing – See Surface Testing Requirements for Warranties on Pages 12-13.
- 8) Coverage of the X70 is approximately 800 – 1,000 square feet per gallon.
- 9) Coverage of the X90 is approximately 250 - 300 square feet per gallon.
- 10) Shelf Life: 18 months in a climate-controlled environment.
- 11) Clean up: Soap and water or Simple Green.

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New Build 50 Moisture Barrier

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

Instructions for the Application of New Build 50

New Build 50 is a microbial barrier product specifically designed for application to new unfinished building surfaces. Application of New Build 50 to new building materials creates an extremely durable microbial barrier to inhibit microbial activity on the surface of the materials. New Build 50 is a stand-alone microbial penetrating barrier. The New Build 50 product can serve as a primer for latex paints. New Build 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 New Build 50 for New Construction (NOT FOGGABLE)

- 5.1 Moisture Content:** Prior to application of New Build 50 it is imperative the contractor test for moisture content of the building materials being treated. Recommended moisture levels for applying the Anabec Product Systems should be 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 the 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.
- 5.3** New Build 50 is a penetrating moisture resistant barrier that provides long-term protection against the stronger strains of mold. New Build 50 is intended for applications to new building materials only. New Build 50 is available in clear, with white and blue tints available from Anabec.

Application Procedures for New Build 50

- 1) Perform preliminary testing – See Surface Testing Requirements for Warranties on Pages 12-13.
- 2) New Build 50 is 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 paint paddle attachment to stir product for 5-10 minutes, settling may require additional stirring.

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- 4) If adding tints additional stirring of approximately 15 minutes (particularly with white) may be required for complete homogenization.
- 5) It is required that the moisture content of the surfaces being treating is 16-20%.
- 6) Cover any materials that are not to be treated with plastic prior to application of New Build 50 (recommend 6 mil. poly). New Build 50 will stain and or leave a sheen, so protection of all finished material is necessary.
- 7) Check for material compatibility prior to application of New Build 50
- 8) Prior to application remove trash from the work area and if appropriate vacuum the entire area to remove dust / dirt from the surfaces to be treated.
- 9) **If there is any visible mold on the lumber (often called lumberyard mold) spot clean with the Anabec's Advanced Cleaning Solution or the Advanced Cleaning Solution Plus before applying New Build 50.**
- 10) Spray all areas with New Build 50 using an airless sprayer including all 90-degree angles where framework meets floorboards and plates. Be sure to spray walls containing plumbing, underside of roof, 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.
- 11) Window sills and headers are major mold growth starting points. It is preferred that windows not be installed before applying New Build 50. If windows are already in place be sure to properly cover window glass
- 12) Equipment clean up requires soap and water or Simple Green, followed by a clean water rinse and needs to be done immediately after application.
- 13) Coverage of New Build 50 is approximately 800 – 1,000 square feet per gallon.
- 14) Shelf Life: 18 months in a climate-controlled environment.

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Anasphere and Anasphere Plus

(Important Notification): Anasphere has been replaced with **Anasphere Plus** as of October 2017. **Anasphere Plus** is also an EPA registered hospital grade disinfectant, fungicide, virucide and mildewstat. The dilution rates for **Anasphere Plus** can be found in the Complete Booklet of Directions for Use Label inside of each purchased box of **Anasphere Plus** or on Anabec, Inc.'s web-site; www.anabec.com. If you still have the old Anasphere product in your possession, please use the instructions listed below.

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

Instructions for the Application and Use of Anasphere



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

Anasphere is an EPA registered disinfectant, sanitizer and deodorizer. Anasphere represents the next generation in hygiene technology. Proven to eliminate and protect thousands of surfaces from a variety of microbial organisms including *Aspergillus niger*, H1N1, E. Coli, Influenza, *Listeria*, *Salmonella*, MRSA, HIV-1 and many more. Anasphere is applied after cleaning the surface with the Advanced Cleaning Solution. Anasphere is also a stand-alone disinfectant that can be used daily. This product is appropriate for use on porous materials and non-porous surfaces.

Anasphere demonstrates a practical solution in addressing the health crisis that environmental bacteria, fungi and viruses pose. Anasphere is not a substitute for good hygienic practice but when coupled with a well-maintained facility and managed environment it will make an enormous difference in controlling outbreaks of MRSA, VRE and other serious microbial threats. Anasphere's component biocides begin attacking micro-organisms on a surface as soon as the product is applied. The advanced polymer then conditions the surface before additional microorganisms can land, making it more difficult for the micro-organisms to settle on the surface, attach, and reproduce. When used routinely it will proactively prevent infection rather than reacting to it once it has occurred.

1. **Precleaning:** To achieve the best results Anabec recommends pre-cleaning heavily soiled surfaces with Anabec's Advanced Cleaning Solution. Failure to pre-clean heavily soiled surfaces will diminish Anasphere's effectiveness.
2. **Mixing:** For general bactericidal, virucidal, and fungicidal applications the Anabec Anasphere concentrate requires the addition of water. Five (5) gallons of water to 3 oz. of concentrate. This equates to a 450 ppm solution of active ingredient. Refer to the Anasphere master label for specific application concentrations.

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3. **Labeling:** For product control, secondary bottles of ready to use Anasphere 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 cannot be distributed, sold, or left behind with a customer.
4. **Safety:** Anasphere as a concentrate may cause skin and eye irritation. When mixing, and applying Anasphere take precautions, such as; PPE (gloves, safety glasses, respiratory protection) to avoid skin or eye contact. If spraying or fogging respiratory protection is necessary to avoid breathing the mist. Refer to the product SDS 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, electronics and non-colorfast fabrics.
6. **Airless Sprayer Application:** Spray a light coat of Anasphere to the walls, ceilings, floors, inanimate objects using an airless sprayer until all of surfaces are thoroughly wet. The recommended tip size for the airless sprayer is .011. Anasphere must remain wet for 10 minutes and should be left on the surface to dry. Allow 30 minutes for the mist to dissipate before entering the space without PPE.
7. **Fogging Application:** When using a fogger, contain the space to be fogged, fog the space with Anasphere until all surfaces are thoroughly wetted. Anasphere must remain wet for 10 minutes and should be left on the surface to dry. Allow 2 hours for the fog to dissipate before entering the space without PPE. Thermal Foggers cannot be used with Anasphere. 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 soaked. Wipe until damp. Anasphere must remain wet for 10 minutes and should be left on the surface to dry.
9. **Sprayer Application:** When using handheld sprayers, use a coarse pump or trigger sprayer. Spray 6-8 inches from the surface, rub with brush, sponge or cloth. Wipe until damp. Anasphere must remain wet for 10 minutes and should be left on the surface to dry.
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.
12. **Preliminary and Post Testing Requirements:** See Surface Testing Requirements for Warranties on Pages 11-12.

Refer to the product label for complete (EPA Approved) applications / instructions.

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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 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, electronics and non-colorfast fabrics.

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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 wetted. 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:

Advanced Cleaning Solution, Systems Stain Remover, X70 or X90 - 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 Advanced Cleaning Solution is Chlorinated Polyvinyl Chloride (CPVC). CPVC is frequently used in newer sprinkler systems and plumbing supply lines.** 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 and the Systems Stain Remover include, but are not limited to; non-

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colorfast fabrics, silk fabric, oriental carpeting, antique furnishings, painting and artwork. 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.

Advanced Cleaning Solution Plus - 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. 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** include, but are not limited to; non-colorfast fabrics, silk fabric, oriental carpeting, antique furnishings, painting and artwork. The **Advanced Cleaning Solution Plus** 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® pipe and fittings. FBC™, FlowGuard Gold®, BlazeMaster® and Corzan® are licensed trademarks of The Lubrizol Corporation or its affiliates."

New Build 50 - New Build 50 is suitable for any product type that can be painted with a latex paint. Items frequently found in unfinished construction space that likely need special attention include open electric connections, electronic components and pneumatic valving. New Build 50 should not be applied to interior finished spaces, furnishings or any fabrics. New Build 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® pipe and fittings. FBC™, FlowGuard Gold®, BlazeMaster® and Corzan® are licensed trademarks of The Lubrizol Corporation or its affiliates."

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.

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5. **Temperature:** When applying the Anabec Product System the air temperature should be above 40 degrees Fahrenheit to prevent freezing of product.
6. **Warranty:** 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 Advantage Contractor.
7. **Shelf Life:** The Advanced Cleaning Solution and the **Advanced Cleaning Solution Plus** have a shelf life of 12 months, X70, X90 and New Build 50 have a shelf life of 18 months from the date of purchase. The Systems Stain Remover S.S.R. has a shelf life of 4 months from the date of manufacture. Anasphere *Plus*, Anasphere 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 with warm soapy water or Simple Green after each application of the Anabec Product System. After the application of the Advanced Cleaning Solution, be sure to flush out the equipment system before using X70 / X90. It is recommended to thoroughly clean your equipment immediately after the use of X70, X90 or New Build 50 with warm soap water or Simple Green.

Surface Testing Requirements for Warranties

1. **Surface Testing Requirements for Advanced Cleaner or 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 is 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.

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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
>4000 to 5000 SF	7	7
>5000 to 6000 SF	8	8
etc...		

- 2. Surface Testing Requirement for New Build 50.** Preliminary surface testing is required for warranty validation. Anabec promotes that an independent environmental consultant take 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 New Build 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 New Build 50. For projects over 10,000 square feet of treated area an additional 1 sample per 5,000 square feet is required (see Table I).

Table I
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, Inc. 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, and product information on our web-site at www.anabec.com.

The following transferrable warranties, as per the footnotes noted in these instructions, are available when using the Anabec Systems products as follows:

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1. 30-year transferable warranty when using the Advanced Cleaning Solution and the X70 or X90 moisture barrier. Please note that the remediation and application of the Anabec products must be completed by a Anabec Trained and Certified Warranty Contractor.
2. 50-year transferable warranty when using the Advanced Cleaning Solution or **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 a Anabec Trained and Certified Warranty Contractor.

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