

SpectraSan 24™

Application Procedures by Market

Sports & Athletic Facilities

<p>Treatment Tables, Taping Tables, and Counters</p>	<ol style="list-style-type: none"> 1. Clean tables, equipment, countertops, stools and any other hard surface with a mild detergent solution, rinse, and allow to air dry or wipe dry with a microfiber cloth. 2. Spray SpectraSan 24 on the surfaces. 3. Allow 2 minutes of dwell time. 4. Wipe with a microfiber cloth. 5. <i>Do not rinse the surface after applying SpectraSan 24.</i>
<p>Ice Coolers</p>	<ol style="list-style-type: none"> 1. Clean with a mild detergent solution inside and outside of the cooler and inside and outside of the cooler's lid. 2. Partially fill the cooler with hot water. 3. Use a designated soft bristle scrub brush to thoroughly scrub the inside and outside of the cooler and the cooler lid. 4. Allow the detergent solution to circulate through the cooler spigot and use clean 6" cotton tipped applicator/swab to clean the nozzle and spigot. 5. Thoroughly rinse the cooler and lid using hot water. 6. Allow the hot water to circulate through the cooler and spigot. 7. Allow the cooler to air dry or dry with a soft clean towel. 8. Spray the cooler with SpectraSan



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Ice Coolers (cont)	<p>24, inside and out, allow 2 minutes of contact time and then wipe with a microfiber cloth.</p> <ol style="list-style-type: none">9. Cooler lids and tops should be placed back on the cooler during storage.10. Store the coolers upside down in a designated storage area.11. Make sure the coolers are stored in a clean and secure area.
Water bottles, Bottle Lids, Carriers, Pouring Pitchers and other Drinking Containers	<ol style="list-style-type: none">1. Water bottles, bottle lids, carriers, pouring pitchers, and other drinking containers must be cleaned and disinfected every day following use, or as needed following possible contamination, using a diluted solution of household liquid dishwashing detergent or other appropriate mild cleaner.2. All drinking containers and carriers are to be cleaned using the “3-Sink System.”3. Fill sink #1 or cooler #1 with a soapy solution of mild dishwashing detergent or other appropriate cleaner and hot water.4. Fill sink #2 or cooler #2 with hot water only.5. Fill sink #3 or cooler #3 with an appropriate third sink sanitizer (1:10 solution of bleach and water, ¼ to ½ oz of an EPA registered quaternary ammonium disinfectant



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<p>Water bottles, Bottle Lids, Carriers, Pouring Pitchers and other Drinking Containers (cont)</p>	<p>recommended for this purpose- ask your BioTech Medical rep for suggestions.</p> <ol style="list-style-type: none">6. Submerge the water bottles, lids, and carriers in sink #1 and use a designated soft bristle brush to scrub the inside and outsides of all the drinking containers, lids, and carriers.7. Submerge the water bottles, lids, and carriers in sink #2 and thoroughly rinse each item.8. Submerge the water bottles, lids, and carriers in sink # 3 to sanitize.9. Store the water bottles upside down in clean carriers - allow to air dry in a designated area.10. Store the lids in a clean container especially designated and marked for lids.11. Store pouring pitchers and other drinking containers upside down in a clean designated area.12. If a 3-sink wash setup is not available, wash containers with a mild detergent solution, rinse, dry, and then spray or wet wipe with SpectraSan 24.
<p>Game-Ready Attachments <i>Game ready attachments include shoulder pads, neck braces, knee braces, and other medical/protective/supportive equipment.</i></p>	<ol style="list-style-type: none">1. Equipment must be cleaned and disinfected SpectraSan 24 following every use.2. Mist or wet wipe each item with SpectraSan 24.



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	<ol style="list-style-type: none">3. Allow 2 minutes of dwell time.4. Wipe with a microfiber cloth
<p>Soft Goods <i>Soft goods, including neoprene braces, sleeves, knee/elbow/forearm/shin pads, splints, lace-up ankle braces, shoulder harnesses, walking boot liners, cast shoes, back braces, etc. should be laundered prior to returning them to the athletic training facility, before being returned to inventory and/or administered to another athlete.</i></p>	<ol style="list-style-type: none">1. Many of the soft good items can be sprayed with SpectraSan 24 and allowed to air dry.2. Soft goods that cannot be laundered, including Philadelphia collars, Donjoy Velocity ankle braces, Aircast ankle braces, hard splints, etc, should be sprayed or wet wiped with SpectraSan 24 after each use and before they are returned to inventory or used by another athlete.
<p>Whirlpool, Hydrotherapy, Spa, Jacuzzi, and Cold Tub Therapy Bath</p>	<ol style="list-style-type: none">1. Whirlpools and other therapy baths should be cleaned after every use.2. Whirlpools should be cleaned using a good general hydrotherapy cleaner (<i>we recommend a multi-enzymatic cleaner like SpectraSan Whirlpool and Spa Cleaner at 1 oz per 5 gallons of water</i>) or mild detergent and then rinsed with warm water.3. Fill the whirlpool with warm water to a level just above the pump intake.4. Add detergent following mixing instruction on product label.5. Clean the surfaces of the tank using a long handled soft bristle brush; scrub all the surfaces, including the bottom, sides, and turbine.



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<p>Water bottles, Bottle Lids, Carriers, Pouring Pitchers and other Drinking Containers (cont)</p>	<ol style="list-style-type: none">6. Turn the whirlpool on for 10-15 minutes and allow the hydrotherapy cleaner to re-circulate.7. Drain the whirlpool and rinse with hot water.8. Spray SpectraSan 24 on all inside and outside surfaces of the unit.9. Allow to air dry.10. NEVER use bleach and ammonia at the same time in or around the whirlpool as this will create hazardous and harmful fumes.
<p>Locker Rooms</p>	<ol style="list-style-type: none">1. Floors should be mopped daily with a mild, free rinsing detergent cleaner or an approved quaternary ammonium sanitizer solution.2. Dusting the top of the lockers and other areas that collect dust should be done daily. Brush all dust and debris to the floor.3. Sweep the floor daily or as needed depending upon use.4. Always use a clean (laundered) mop head for better results.5. Do not use SpectraSan 24 to clean or disinfect the floors. Using a ready-to-use product on the floors is not only cost prohibitive, but repeated use could cause the floors to become tacky.6. Exterior surfaces of the lockers, walls, and other equipment within the room should be cleaned with a



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<p>Locker Rooms (cont)</p>	<p>mild detergent solution on a daily basis or at least weekly.</p> <ol style="list-style-type: none">7. Spray SpectraSan 24 on all hard surfaces, allow 2 minutes of contact time, and wipe with a microfiber cloth. <p>Option 2: Fogging or Misting Locker Rooms/Equipment Rooms.</p> <ol style="list-style-type: none">1. Fog/Mist the entire locker room with SpectraSan 24 on a weekly basis or more often during heavy use periods or after a contamination.2. Open all locker doors and empty contents during fogging procedures.3. Set up two Tri-Jet Fog Master or similar units spaced evenly apart in the main portion of the locker room. Place one unit on a chair or elevated position and point the spray nozzle up.4. Set the second Fog Master unit on the floor and point the spray nozzle up.5. Fill both Fog Master units with SpectraSan 24. Do not dilute with water.6. Connect extension cords to each fogging/misting unit using a power source located in a hallway or adjoining room.7. Turn Fogmaster switch on (do not plug into the outlet first).8. Close door of room to be fogged
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<p>Locker Rooms (cont)</p>	<p>and plug the extension cord into the outlet in the adjoining room.</p> <ol style="list-style-type: none">9. Allow fogger to mist for approximately 5-10 minutes or until all surfaces are lightly coated with SpectraSan 24.10. Disconnect the power and allow 10 -15 minutes or until the mist has completely settled.11. Remove the fogging units and open all doors to allow ventilation into the room.12. Wipe surfaces with a microfiber cloth and use a microfiber cloth to wipe floors and walls. Wear a mask or respirator when working with a fogger or when working in a room that has been recently fogged. Although SpectraSan 24 is not harmful, the smaller micro particles of highly compressed liquids (including tap water) can be irritating to the lungs.13. For spot fogging, simply carry the fogger by the handle and direct the nozzle to the desired target areas.14. Apply the mist evenly on all hard surfaces.15. Allow 2-minutes of dwell time.16. Wipe with a microfiber cloth.
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Restrooms	<p>Option 1:</p> <ol style="list-style-type: none">1. Thoroughly clean all sinks, fixtures, and countertops with a mild detergent or general all-purpose cleaner.2. Rinse soap scum, hair and other organic matter down the drain and wipe dry.3. Spray or wet wipe SpectraSan 24 on all hard surfaces and fixtures, allow 2 minutes of contact time and then wipe with a microfiber cloth.4. Toilet bowls should be scrubbed daily with a mild, non-acidic toilet bowl cleaner. Thoroughly clean around the interior of the bowl and under the rim. Use a toilet bowl brush on the interior of the bowl and on all hard to reach surfaces.5. Allow the toilet bowl cleaner to sit in the bowl for 10 minutes (or according to the product label instructions) and then flush.6. Clean the exterior of the toilet with a mild detergent or all-purpose cleaner. Wipe the exterior surfaces dry.7. Spray the exterior with SpectraSan 24, allow 2 minutes of contact time and then wipe with a microfiber cloth. <p>Option 2: Restroom Fogging/Misting Follow the same procedures as in</p>
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<p>Showers</p>	<p>Fogging/Misting Locker Rooms.</p> <ol style="list-style-type: none">1. Clean all sinks, fixtures, and countertops with a mild, all-purpose cleaner.2. Rinse soap scum, hair and other organic matter down the drain and wipe dry.3. Follow by applying, spraying or fogging SpectraSan 24 on all hard surfaces and fixtures.4. Allow 2 minutes of contact time and then wipe the fixtures, shower heads, towel bars/hooks, and floors with a microfiber cloth and/or mop.
<p>Weight Training and Cardio Equipment</p>	<ol style="list-style-type: none">1. Spray or wet wipe SpectraSan 24 on free weights and resistant training equipment, seats, handles, arm rests, and other frequently touched surfaces on a daily basis.2. Allow 2 minutes of contact time and then wipe with a microfiber cloth.3. Repeat the same procedures for all the cardio equipment, including the treadmills, Life Cycles, Spinning Cycles, Stair Steppers, Elliptical Cross Trainers, etc.4. Spray SpectraSan 24 on to a microfiber cloth and carefully wipe down the control panels.5. Allow 2 minutes of contact time and then wipe dry with a microfiber cloth.



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<p>Weight Training and Cardio Equipment (cont)</p>	<p>6. Alternate method: Periodically fogging the entire area is another option. However, be careful to wipe down all touch surfaces and floors with a microfiber cloth. Refer to Locker Room Fogging Procedures for step-by-step instructions.</p>
<p>Equipment Storage Areas</p>	<ol style="list-style-type: none"> 1. During the season, fog the equipment storage areas at least once a week or as often as needed. (See Locker Room Fogging Procedures for step-by-step instructions.) 2. You may manually hold the fogger by the handle and direct the nozzle toward the targeted areas, making sure to completely cover all hard surfaces. 3. Remember to wear a mask or respirator whenever working in a recently fogged area.
<p>Playing Surfaces, Wrestling Mats, Aerobics/Yoga/Pilate Mats</p>	<ol style="list-style-type: none"> 1. Wrestling mats, Aerobic, Exercise, Yoga, and Pilate mats should be routinely cleaned with a mild detergent to remove body oils and organic matter daily or at least once a week. 2. Apply, spray, or directional fog each mat with SpectraSan 24 daily, after a competition, or at least once a week. 3. Allow 2 minutes of contact time and



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<p>Playing Surfaces, Wrestling Mats, Aerobics/Yoga/Pilate Mats (cont)</p>	<p>then wipe with a microfiber cloth or use a microfiber mop for large surfaces.</p>
	<ol style="list-style-type: none">NOTE: We strongly recommend cleaning and disinfecting all wrestling mats before and after practices and competitive matches.Spray SpectraSan 24 on player benches, chairs and all touch areas around the practice or playing fields.Field Turf playing fields should be fogged a few hours before an event to provide a residual layer of protection on the playing field
	<p>Optional Application Method</p>
	<ol style="list-style-type: none">Use a golf cart or tractor and attach a Tri-Jet Fogger on the back of the vehicle.Use a small generator or battery power pack for the electrical source.
	<p><i>Note: The Fogmaster Company has a turntable option available for purchase that works well for providing a full 180° spray pattern.</i></p>
	<ol style="list-style-type: none">Fill the fogging unit with SpectraSan 24 and completely cover all surfaces of the field.Allow to air dry.



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Helpful Application Hints

There are a number of ways to properly disinfect a hard, non-porous surface so that it no longer represents a potential risk for the transmission of communicable and pathogenic diseases. Those assigned the responsibility of disinfecting hard surfaces in a given facility need to remember that a little common sense goes a long way.

First, make sure the surface has been properly cleaned and rinsed before using **SpectraSan 24** or any other disinfectant. The silver dihydrogen citrate molecule contained in **SpectraSan 24** needs to pierce the cell wall of the microorganism, work its way into the intercellular wall of the organism in an effort to disrupt and destroy the microorganism's DNA. In order to accomplish this, the SDC molecule cannot spend all of its energy trying to fight its way through layers of dirt, grease, grime, scum, and other contaminants. Therefore, remember rule #1. Always clean the surface *before* applying **SpectraSan 24** or any other disinfectant and/or sanitizer.

A little **SpectraSan 24** goes a long way. Using more product is not better; in fact, it can actually lead to more problems. One 32 oz bottle of **SpectraSan 24** will cover approximately 900-1000 square feet and fogging or misting **SpectraSan 24** through a Fogmaster unit (depending on the micron/misting setting) will yield nearly 2000-4000 square feet of coverage for the same 32 ounces of **SpectraSan 24**.

Remember to mist a very light coating of **SpectraSan 24** on the surface being disinfected. Allow 2 minutes of contact or dwell time and then wipe with a microfiber cloth. If the surface you have treated is tacky or sticky, chances are - you used too much product or did not sufficiently wipe the surface after the 2 minutes.

Why wait 2 minutes?

SpectraSan 24 kills many germs 20 times faster than traditional disinfectants. Traditional disinfectants **MUST** remain wet on the surface for anywhere from 5-10 minutes to kill the germs. Unfortunately, most liquid sanitizers and disinfectants evaporate within 2-3 minutes. Read the product label, if the instructions say the surface must remain wet for 5-10 minutes, but it dries sooner, the surface is not disinfected and product **MUST** be reapplied. **SpectraSan 24** kills many germs in anywhere from 30 seconds to 2 minutes.

Why Use Microfiber Cloths?

Microfiber cloths are more versatile to use than cotton material and blends. You can use a microfiber cloth dry for dusting or polishing. Use damp/wet (*just a little water needed*) for cleaning mirrors, windows, counters, stovetops etc. Use the cloth to remove dust, stains, spots, grease, fingerprints, odor causing bacteria and much more! It is especially



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good to use for disinfecting hard surfaces because you actually need less product to achieve efficacious results and, unlike cotton materials or 100% polyester blends; a microfiber cloth does not leave behind pills, strands, and cotton residue that can act as harborage points for bacteria and germs.

What is Microfiber made of?

Microfiber is a blend of polyester and polyamide. It is constructed in a blend of either 80/20 or 70/30 ratio of polyester/polyamideams.

Where can I use them?

You can use microfiber cloths anywhere! Kitchens, bathrooms, cars, windows, mirrors, counters, eye glasses, sinks, showers, furniture, TVs, Bathtubs and tables. The list of uses is endless. They are safe for virtually every surface and will never scratch or harm anything you use them on.

What surfaces are safe for using Microfiber Cloths?

Microfiber Cloths are safe for virtually every surface and will never scratch or harm anything you use them on. Use on tile, linoleum, glass, wood, ceramic, marble, granite, plastic, vinyl, leather, and much more.

Can I use a Chemical Cleaner or Disinfectant with Microfiber cloth?

Microfiber cloths remove 98-99% of all dirt (not bacteria) with just water. However, are ideal for use when sanitizing and disinfecting hard surfaces because they do a more effective job, require less product, remain clean longer, and do not inhibit the disinfection qualities of the product.

How do I clean my Microfiber Cloths?

Wash with warm, soapy water and rinse well. The warm water opens up the microfibers, allowing them to release the locked in dirt. You may also put the cloths in the washing machine and then dry them in the dryer on low. **DO NOT USE** fabric softeners of any kind as the chemicals clog the microfibers, making them less effective. **DO NOT USE** bleach either because it corrodes the fibers over time, making them less effective. **DO NOT IRON**. The typical microfiber cloth can be laundered up to 500 times before needing to be replaced, which makes them extremely economical to use.

Maximizing the Effectiveness of SpectraSan 24

A Clean Surface

Soil can chemically deactivate a disinfectant as well as physically protect the microbial cell from direct contact with the product. The surface must be cleaned and thoroughly



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rinsed – made free of soil and residual detergent – which could also chemically deactivate the disinfectant.

Intimate Contact

In order for SpectraSan 24 to be effective, it must come into direct contact with the cell wall of the organism. Harborages such as pits, crevices, and cracks as well as soil residue can prevent this intimate contact from occurring.

Contact Time is an Important Factor

Cover the surface so that it is wet. Normally, the longer the dwell time, the more effective the kill. Please remember, though, that dead is dead. If we recommend a 2 minute contact time, waiting 15 minutes is not going to make the organism any more deader than it already is after 2 minutes.

Type of Microorganisms

It is important to remember that not all sanitizers and disinfectants are equally effective against the same microorganisms. Interestingly, cells in the spore or biofilm state are much more resistant than cells in the vegetative and freely suspended state. It is essential to know what you are fighting and understand that not all germicides are broad spectrum. **SpectraSan 24**, for example, requires 30 seconds to kill most standard indicator bacterium and 2 minutes to kill MRSA, and VRE, 3 minutes to kill Rhinovirus and SARS, and only 1 minute to kill H1N1 (Swine Flu). Many disinfectants and sanitizers currently used in the market require 10 minutes to kill the aforementioned pathogens. When in doubt, read the label. The EPA requires all kill claims to be clearly visible on the product label. A simple rule to remember is, “Facts are facts – if it’s not on the label, it’s not a fact!”

