

# WarehouseSafe

*Advanced Cleaning + Protection for  
Warehouse Health and Wellness*



WCP Facility Solutions



# Mission

Our mission is to help people and facilities achieve their full potential by providing a holistic approach to facility health

# About WCP Facility Solutions

## Business centered around Facility Health and Wellness

- Healthcare (HAI / CAI Eradication)
- Education (Student + Staff Safety / Savings Benefits per Facility)
- Industrial Staff (Employee Absenteeism / Environmental Safety)
- Agriculture (EPA Restrictions / Eliminate Mold + Bacteria)
- Entertainment (Music Venues / Stadiums, Arenas, Theaters, Clubs)
- Recreation (Cruise line Safety / Hospitality Industry, Gyms)
- Retail (Odor Reduction / Antimicrobial Laundry Additive)
- Liability Risk Mitigation (Lawsuit Avoidance / Fine Reduction)
- Reduction of large scale infectious outbreaks (Correctional Facilities)

## Product Agnostic

- Find best in class products, design and implement a coordinated suite of healthy building technologies and integrate them into cost effective solutions and savings



# WarehouseSafe Agenda

## PHASE 1

**Identify the Problems by Assessing the Facility**

## PHASE 2

**Prescribe Solutions – Products and Processes**

## PHASE 3

**Train Staff or Provide Certified Service Providers**

## PHASE 4

**Measure and Validate Results**

## Immediately: “*Upgrade current public health practices.*”

WCP Facility Solutions recognizes there are no “*silver bullets*” in the world of infection control. We know the problem is complicated and requires multiple solutions. WCPFS specializes in implementing safer cleaning and infection control strategies to “*control*” the spread of microbes.

### Let us attack this problem for you by

- Using a systematic layered approach focused on proven methods of transmission and transference
- Instituting state of the art technologies to alleviate costs
- Implementing disruptive products to provide superior outcomes
- Monitoring outcomes from utilized technologies
- Collecting relevant data and providing systematic analysis for “best practice scenarios”

# Methods of Transmission



## Surfaces

*Touch Contamination*



## Textiles

*Spore Capture / Bacteria*



## Hygiene

*Hand Washing*



## Exposure

*Outside Sources*



## Air

*Vectors / Air System Handling*



# Surface Antimicrobials

**Chlorine Dioxide (ClO<sub>2</sub>) Solution Surface Deodorizer**

**Chlorine Dioxide (ClO<sub>2</sub>) - Off Gassing Deodorizing Tablets**

**Hypochlorous Acid (HOCL) - Disinfectant**

- **Chlorine Dioxide (ClO<sub>2</sub>)** is an all-purpose, surface cleaner which is an excellent solution to eliminate smoke and odors
- **Off Gassing Tablets** require no labor – simply place the tablet in the appropriate container of water
- **Chlorine Dioxide (ClO<sub>2</sub>)** is the CDC's recommended product for disinfection of PPE vs Ebola.
- **Hypochlorous Acid (HOCL)** is made naturally by white blood cells in all mammals for healing and protection
- **Hypochlorous Acid (HOCL)** is a powerful oxidant that is effective against bacteria, fungi, and viruses

## **Label Claims Bacteria and Fungi**

- Salmonella enterica
- Escherichia coli
- MRSA
- Salmonella enterica
- Acinetobacter baumannii
- Staphylococcus aureus
- Legionella pneumophila
- Aspergillus niger
- Enterobacter aerogenes
- Listeria monocytogenes

## **Label Claims Viruses**

- HIV-1
- Norovirus (feline calicivirus surrogate)
- Respiratory syncytial virus
- Rotavirus
- H1N1 flu virus
- H5N1 flu virus
- Hepatitis B
- Hepatitis C

# BIOPROTECT™

## 6 Hour Hand Sanitizer

- Regular hand sanitizers work only when the product is wet
- BIOPROTECT™ unique alcohol-free foaming hand sanitizer delivers 6-hour residual protection on skin surfaces
- Benzalkonium Chloride/Aloe formulation, non-sticky, non-greasy, no odor
- Once applied the material bonds to the skin surface and provides continual protection even after hand washing/hygiene procedures
- Application on hands reduces inoculation of touch points throughout the environment, reduces cross contamination
- Alcohol-free, no fire hazard for storage, or false positive drug testing results for personnel
- Reduces staff absenteeism and presenteeism





# SHIELD™

## Disruptive Biostatic Agent 90 Day Surface Protectant

- Effective on surfaces for up to 3 months
- Eliminates bacteria, mold, fungus, algae, and other odor causing microbes
- Organic, non-toxic, non-leaching, water-based molecule
- Persistently kills organisms mechanically instead of chemically
- EPA approved for porous and non-porous surfaces
- Works on textiles in laundry solutions, provides odor control, anti-static component
- A Silicone Quaternary Ammonium Salt (Organo-Silane Molecule)
- Approved for direct surface, food, and pet contact
- Edison Award Winning “Best New product”





## SHIELD™

# Laundry Treatment

- Organic product non-toxic, water-based molecule laundry softener for clothing, uniforms, textiles, and tablecloths
- Extends garment/uniform life as bacteria feed off dead skin cells embedded within the clothing fibers
- When the SHIELD™ treatment has dried and establishes its mechanism of defense the matrix inherently adds beneficial hydrophobic qualities to textiles with which it has been applied
- This process enhances the material's ability to resist spills, soiling, liquids and absorption of sweat and body odors while still allowing the garment to significantly breathe and provide evaporative cooling
- Produces persistent residual self-sanitizing activity against athlete's foot fungus (*Trichophyton mentagrophytes*) on treated socks. Durable for up to 10 repeated washings; prevents 99.9% of athlete's foot fungus growth
- Provides anti-static component, exceptional odor control

# Perfect Clean™ Microfiber

- **Physically removes 85% of grime, dust and Micro-organisms**
- **Durable and Chlorine Stable designed to meet CDC guidelines for Blood-Borne Pathogens**
- **Lint-free therefore lessens particulates produced from paper towels**
- **Multicolor to identify use area (Bathroom vs Kitchen Applications) helps limit cross contamination**
- **Provides an electrostatic charge to *attract* debris**
- **Aides in achieving Dwell Time**
- **Reduces waste**
- **Highest Absorption Capacity of any Product Tested**
- **Multiple patents including internationally patented "Built-in Antimicrobial Product Protection"**





# All Purpose Clean



- Mop Floors
- Sanitize Tables
- Clean Bathrooms
- Clean Grease Traps
- Clean Equipment/Racks
- Clean Windows
- Cost Effective Formulation



# **SIMIX™ Floor Coating**

- Provides a Nano-Technology Surface Treatment rendering flooring surfaces antimicrobial, through high pH (12) and inclusion of Spot-On technology
- Nano-Technology forms a glass-like composite, and is not a wax, therefore much less slippery
- Easy-to-use (two people can apply 10,000 square feet in approximately 2-hours)
- Maintenance is as easy as periodic swabbing with Simix™ multi-surface cleaner
- Significant labor cost savings over conventional floor treatments
- Adjunctive to increased air quality: Eliminating bio burdens



**Liquid Cleaners and  
Disinfectants Leave  
Behind Biofilm**

**Simix Cleaner**

**Detergent**

*Dissolves the  
lipid membrane*

**Hydrogen Peroxide**

*Destroys viral structure*

**High pH**

*Hostile to viral and  
microbial growth*



**Biofilm is a Hideout  
and a Food Source for Microbes**

**Simix Removes and Prevents  
Biofilm Build-up**



# SIMIX™ Floor Coating Reducing “Slip and Fall” Incidents

SIMIX Multi-Surface Ceramic Clearcoat creates less slippery floors and is rated as high traction by ANSI standard “Dynamic Coefficient of Friction” (DCOF) testing. Using a tribometer on a wet surface, floors treated with Simix™ maintain high DCOF ratings (above .42) and are safer for students, customers, faculty and staff. This results in a reduction of “slip and fall” incidents, relating filing of potential lawsuits, insurance claims and processing of requisite paperwork.



Coating DCOF result ANSI Standard Range SIMIX  
Ceramic Clearcoat = .436 High traction

# Indoor Air Quality Approach

We understand that decreasing overall particulates and bio-burdens found in confined spaces, leads to requisite decreases in associated cleaning costs, along with decreased risk of airborne transmission of microbes and decreases the likelihood of microbial touch contamination and exposure to pathogenic organisms, therefore preventing infections and subsequent hospital visits.

WCPFS maintains access to a number of disruptive filtration technologies which can accomplish this goal, and can suggest the optimal IAQ solution for your needs.



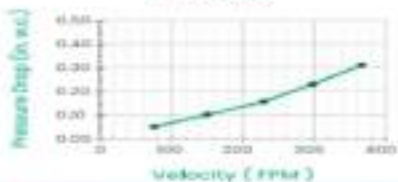
# Air – Greentech™ Containment Filter with ODOgard™

- **The most cost effective solution for improving indoor air quality, eliminating odors, and saving energy in commercial buildings.**
- **Great for older equipment, areas that require better filtration, construction material off-gassing, high traffic areas, LEED buildings, and any odors or volatile organic compounds, everywhere you have a pleated**
- **True mechanical MERV 13A with low pressure drop equal to a true mechanical 8A airflow, for better energy efficiency and provides less stress on existing HVAC systems.**
- **2 in 1 filter- High MERV rated filter plus the advantages of gas phase reductions for odors and VOC's.**
- **ODOgard™ creates a molecular bond with odors and renders the odor inert, eliminating them.**



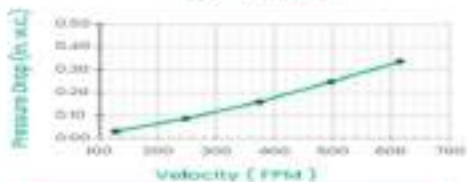
## Greentech Filters+ Pressure Drop vs. Flow Rate

1" Filter



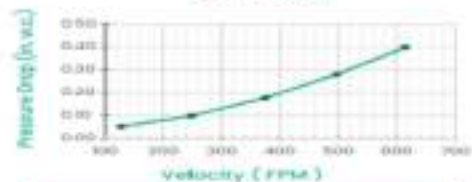
Velocity (fpm)	Press Drop (in. w.c.)
73.75	0.05
147.50	0.10
221.25	0.16
295	0.23
368.75	0.31

2" Filter



Velocity (fpm)	Press Drop (in. w.c.)
123.00	0.03
246.00	0.09
369.00	0.16
492.00	0.25
616.00	0.34

4" Filter



Velocity (fpm)	Press Drop (in. w.c.)
103.25	0.05
206.25	0.10
309.50	0.16
412.50	0.23
616.75	0.40

## ASHRAE 52.2 Test Data

**Filter Size:**  
24" x 24" x 2"

**Test Aerosol:**  
KCl, Neutralized

**Flow Rate:**  
1,968 CFM

**Velocity:**  
492 FPM



Size Range (µm)	Initial Fractional Efficiency	
0.30 - 0.40	19.0%	E <sup>1</sup>
0.40 - 0.55	26.7%	
0.55 - 0.70	34.9%	
0.70 - 1.00	44.3%	
1.00 - 1.30	55.3%	E <sup>2</sup>
1.30 - 1.60	61.9%	
1.60 - 2.20	68.0%	
2.20 - 3.00	76.3%	
3.00 - 4.00	82.3%	E <sup>3</sup>
4.00 - 5.00	86.3%	
5.50 - 7.00	88.2%	
7.00 - 10.00	90.0%	

# Monitoring – We do what we say we do...

- Purity Alliance maintains a number of strategic alliances with technology companies providing monitoring of viable air samples and surface contamination with cloud based and off-site notification capabilities
- Providing “state of the art” measurement of environmental parameters such as:
  - Temperature
  - Humidity
  - Ozone
  - CO<sub>2</sub>
  - CO
  - Pressure Differentials
  - Particulate Matter from 0.1 micron to 10 micron
  - VOC's
- We have the ability to detect/analyze biofilms on surfaces, and in conduits to detect inoculation with Legionella and other water-borne microbes
- Protect staff, employees, guests, visitors and decrease likelihood of transmission to residents





# Combining Technologies for Cleaner Environments







## Keep Transport Vehicles Safe

- Clean all Transport Vans, Buses, and Vehicles with Microfiber
- Deodorize with Chlorine Dioxide Off-Gassing tablets
- Sanitize with Hypochlorous Acid (HOCL)
- Residually protect with SHIELD™ Technology
- Remain continuously and residually protected from facility, to court appearances, work sites, transport destinations and all spaces in between

## Service Options

- HVAC Clean/Coat
- Roof Warranty Management Program
- Deep Kitchen Clean
- FloorCare
- Surface Protection



# Warehouse**Safe** Summary



## Lower Operating Costs

*Cleaning, Staff Absenteeism and Presenteeism*



## 24/7 Protection

*Continuous surface + textile cleaning and sub-micron air filtering*



## Helps Ensure Safety

*of staff and visitors*



## Environmentally Safe

*Exceptional mold and odor control*

SHIELD™ Surface Protectant

SHIELD™ Laundry Treatment

BIOPROTECT™ 6 Hour Hand Sanitizer

PerfectCLEAN™ Microfiber

Greentech™ Filters

Hospital Grade Disinfectants

Simix™ Products

Atmo-Cube™ Air Monitoring

Risk Mitigation and Management

Infection Control Consulting



WCP Facility Solutions

Your Partner for Safe and Healthy Facilities

# Thank You For Your Interest !

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