



TOTAL FACILITY DISINFECTION PROGRAM

for ProvaCharge™ and ProvaStep™

WE HAVE YOUR OPERATION COVERED

A food production facility's master disinfection schedule often calls for periodic intensified cleaning that supplements daily cleaning, disinfection routines. These "deep cleans" can be triggered by positive microbial results or may be part of a routine preventative maintenance schedule.

Periodic, "non-routine" disinfection events may include:

Periodic "Total Facility Disinfection Events"

Shock the entire facility with a deep disinfection/biofilm kill* treatment to eliminate all harborage niches from the facility to bring the plant to a new microbial "baseline."

Seasonal Processing

Harvest-season produce processing, line additions and changes for seasonal food products

Cooler & Storage Clean Outs

Areas such as grading and sorting coolers, distribution centers and product holding areas

Construction

New facility builds or expansions, line additions, planned and unplanned maintenance events, equipment installs

Emergency/Disaster

One-off events such as flooding will require several remediation steps, including microbial disinfection.

Sterilex's quat-free based ProvaCharge™ disinfectant is specifically designed to eliminate microbial harborages, kill biofilm bacteria* and offer sporicidal disinfection. It can be used to disinfect specific processing rooms that may be affected by any of the activities mentioned above or to shock treat complete processing facility on a periodic basis in a cost-effective manner.

BENEFITS SUMMARY

A total disinfection application with Sterilex products results in the following benefits:

Total Facility Microbial Baseline

- o Disinfect and kill biofilm bacteria* with ProvaCharge in areas not regularly scheduled for disinfection cycles
- o Eliminates microbial harborage niches throughout your entire facility to reach a new level of facility cleanliness

Higher yields due to microbial reduction in areas not routinely cleaned

- o Less product on hold, downgraded or discarded due to microbial contamination

Improved Regulatory Compliance

- o Inspector, auditor, and customer satisfaction with a "best practice"
- o Proven disinfection tool in the food safety plan

Confidence in Your Process

- o Chemistry specifically designed for disinfection in food manufacturing environments
- o Total facility disinfection in a manner that is less expensive than other products currently in use, compatible with most equipment and facility surfaces** and compatible with wastewater systems

* Kills 99.9999% of *Pseudomonas aeruginosa*, *Staphylococcus aureus* in biofilms. Biofilm label claims are approved for specific applications only. See product label for full label claims and usage instructions.

** See compatibility chart for list of compatible materials.





RECOMMENDED PROTOCOL

A total facility disinfection application with Sterilix technology aims to eliminate microbial harborages and bring your facility to a new microbial baseline. The total facility disinfection event includes multiple, consecutive treatments (often over the course of a weekend) of all surfaces not on a routine cleaning schedule, or treatment of the entire facility. For best results, this protocol should be repeated 3–5 times over the course of a weekend.

Preparation

1. Treat all surfaces with an alkaline detergent, followed with a water rinse.
2. Identify potential harborage niches and biofilms utilizing **Indicon® Gel**, noting hot-spots.***
3. Rinse Indicon Gel from surfaces.

Total Disinfection Application

1. Prepare solution of **ProvaCharge F100** and **ProvaCharge P500**. For every litre of use-solution add 100 ml F100 and 17 ml P500 to 883 ml water for use in a high volume, rinsed tank foamer. Use Sterilix product solution within 8 hours of mixing.
2. Generously foam all overheads, walls, equipment, floors and drains to ensure thorough coverage. Allow chemistry to soak in all crevices of treated surfaces.
 - a. **Minimum contact time:** 10 minutes
 - b. **Water Temperature:** 5–40°C
3. Rinse all surfaces thoroughly with a potable water rinse.

Verify Results

1. Re-apply Indicon Gel to hot-spots identified prior to the total facility disinfection event to verify the elimination of biofilm harborage niches.
2. Verify biofilm bacteria kill* from said niches.
3. If Indicon Gel indicates the potential continued presence of a biofilm harborage niche, reapply ProvaCharge to trouble areas then follow with a final disinfectant.

RECOMMENDED PRACTICES FOLLOWING TOTAL FACILITY DISINFECTION

Daily

ProvaStep™ is a first-of-its-kind granular floor disinfectant that can be applied to any floor surface, including production floors, hallways, doorways and on top of drains to kill pathogens such as *Listeria*, *E. coli* and *Salmonella*. ProvaStep applied daily, even during production times, will provide ongoing protection between deep clean cycles.

For ongoing protection, it is recommended to reapply ProvaStep when no longer visible or at least once every 8 hours in high-traffic or high moisture areas.

Weekly

Sterilix **ProvaCharge** should be used at a minimum of once per week.

Periodically

Revisit total disinfection events in accordance with your facility's master disinfection schedule.



***Request Sterilix Indicon Gel Program for information.



PROVACHARGE MATERIAL COMPATIBILITY REFERENCE

Compatibility chart for dilutions of ProvaCharge. Compatibility testing conducted for 10 consecutive days (14,400 minutes of use). Simulates 5.5 years of daily treatments.

METAL COUPONS		ELASTOMERIC COUPONS	
MATERIAL	COMPATIBILITY	MATERIAL	COMPATIBILITY
Aluminum 1100-0	Compatible	Natural Rubber	Non-Compatible
Aluminum 1100	Compatible	Polycarbonate	Compatible
Aluminum 3003	Compatible	HDPE	Compatible
Aluminum 5052	Compatible	LDPE	Compatible
Aluminum 6061	Compatible	Polypropylene	Compatible
Aluminum 7075	Compatible	PVC	Compatible
304 Stainless	Compatible	Teflon	Compatible
316 Stainless	Compatible	Delrin	Compatible
		BUNA-N	Semi-Compatible ¹
		Viton	Compatible

¹Compatibility issues from the PAA, not ProvaCharge solution

PROVASTEP MATERIAL COMPATIBILITY REFERENCE

Compatibility test for ProvaStep on common materials.

MATERIAL	COMPATIBILITY	MATERIAL	COMPATIBILITY
Aluminum 6061	Semi-Compatible ¹	Flowcrete Flowfresh SL (Urethane)	Compatible
Aluminum 7075	Semi-Compatible ²	Flowcrete Flowfresh HF (Urethane)	Compatible
Stainless Steel 304	Compatible	Flowcrete Flowcoat SF41 (Epoxy)	Compatible
Stainless Steel 316	Compatible	Tuffco MRXL Epoxy	Compatible
Galvanized Steel	Semi-Compatible ²	Dairy Brick	Compatible
Mild/Cold Rolled Steel A366	Non-Compatible	Quarry Tile/Ceramic	Compatible
Cast Iron	Non-Compatible	Unsealed Concrete	Compatible
Brass	Non-Compatible	Sealed Concrete	Compatible
		Acrylic Painted Surfaces	Non-Compatible
		Latex Painted Surfaces	Non-Compatible

¹Minor pitting and discoloration

²Minor pitting and moderate loss of surface smoothness/luster

Please contact us for more information.

Building 4, Foundation Park, Roxborough Way, Maidenhead, UK SL63UD | +44 1628 274459 | support@sterilex.co.uk | www.sterilex.co.uk

The content in this marketing material is provided for informational purposes only and does not supersede the product label requirements. Approved label claims may vary depending on geography, use site, organism, or other factors. Always refer to the product label for complete directions for use.

UK_TFDP_0525