



INTEGRAL SURFACE PROTECTION PROGRAM EVALUATION

EUUUF

BACKGROUND:

Studies have shown that more than half the time, cleaned and disinfected surfaces are not adequately cleaned or are re-contaminated within minutes. However the addition of AEGIS Microbe Shield, a durable and long-term antimicrobial, has been proven to reduce microbial load and facilitate enhanced sanitizing. Surfaces with lower bacterial load will reduce cross-contamination, thereby reducing your guests and staff's risks of acquiring infections.

OBJECTIVE:

To scientifically prove the performance of AEGIS Microbe Shield as a durable antimicrobial and its ability to reduce growth of microorganism on treated surfaces across the entire hotel property.

METHODOLGY

TEST SITE	INCLUSIVE TESTING DATES
Hilton Garden Inn, 90 22 St E, Downtown Saskatoon	October - December 11, 2020

Measure

Tests used a Hygiena ATP meter which measures organic materials on surfaces and is most often used in healthcare and food production facilities.

Process

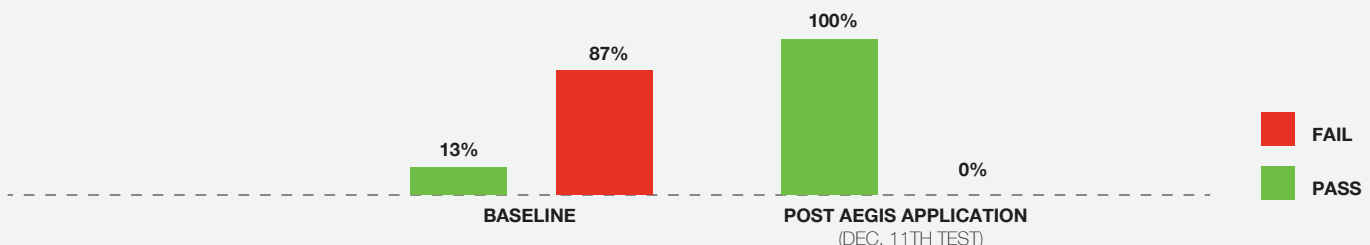
Consistent test sites were identified prior to application of AEGIS Microbe Shield. These sites are high touch point areas that often get contaminated. Test was done to measure the presence of microbial growth.

- A baseline was established by testing these sites after a full cleaning
- AEGIS Microbe Shield was applied using Victory Electrostatic Sprayers (at their lowest setting) to all these high touch surfaces
- Follow up tests were done after 30 days and 60 days of AEGIS Microbe Shield application

RESULTS

SystemSURE Plus ATP hygiene monitoring system was used to measure cleanliness of surfaces. The Hygiena system was set to Pass and Fail limits of 60 and 101 respectively. ATP systems use relative light units (RLU) as the unit of measure, the lower the RLU score the cleaner the surface.

THE APPLICATION OF AEGIS MICROBE SHIELD RESULTED IN A PASS FOR ALL SITES



Below are standards set out in the Integral Surface Protection Program for Hotel Facilities.



RAW DATA:

Location

	Pre-Application baseline October 11 th	Post-Application December 11 th	% Reduction
Room #1204			
Entry Handle Interior	413	18	95.6
Bathroom Light Switch	468	17	96.4
Toilet Handle	208	12	94.2
Refrigerator Handle	100	8	92.0
Telephone Buttons	151	27	82.1
Remote Control	841	11	98.7
Room #1210			
Entry Handle Exterior	773	31	96.0
Bathroom Counter	129	17	86.8
Shower Faucet Handle	118	6	94.9
Desk Top	432	11	97.5
Coffee Maker Button	379	7	98.2
Remote Control	1,590	35	97.8
Common Area			
Reception Counter	444	15	96.6
Vending Refrigerator Handle	381	17	95.5
Elevator Buttons	909	78	91.4
			Total Reduction Across Facility : 95.8%

CONCLUSION

Baseline results reinforces that "clean" is NOT necessarily disinfected. The relatively long list of variables to consider in order to do proper disinfection conspire to challenge the effectiveness of cleaning and sanitizing protocols today.

Complicating the task is the ability of bacteria to form biofilm. This is a colony of bacteria that adhere to the surface and create a barrier that is extremely resistant even to chemical treatments. This biofilm is often composed of multiple strains of bacteria cooperating for their mutual survival.

The simple addition of AEGIS Microbe Shield to cleaning and disinfecting protocols show a dramatic impact on the reduction of microbial growth on treated surfaces. This chemical free and scientifically proven technology demonstrated enduring protection of all 100% sites tested at this hotel facility.

ABOUT THIS HOTEL FACILITY

The Hilton Garden Inn is centrally located next to TCU Place and Midtown Plaza and is ideal for those that want to explore downtown. This eco-friendly, 180-room hotel has almost every amenity a traveller or family could want.

The Hilton has taken steps to enhance their already rigorous cleaning protocols by creating the Hilton CleanStay program. This program ensures that all rooms are first cleaned and then separately disinfected.

In August of 2020, Jaret Waddell, of Globex Management engaged with Integral Services Group about the possibility of treating the entire hotel with Integral Surface Protection Program, utilizing AEGIS, by Microban. Jaret, in consultation with Perry Singh, the General Manager of the property, decided to move ahead with the program.