



INTEGRAL SURFACE PROTECTION PROGRAM EVALUATION

October 2020 – January 2021

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.

METHODOLOGY

TEST SITE	INCLUSIVE TESTING DATES
Best Western, 410 TaigaNova in Fort McMurray, AB	October 5th, 2020 – January 13th, 2021

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

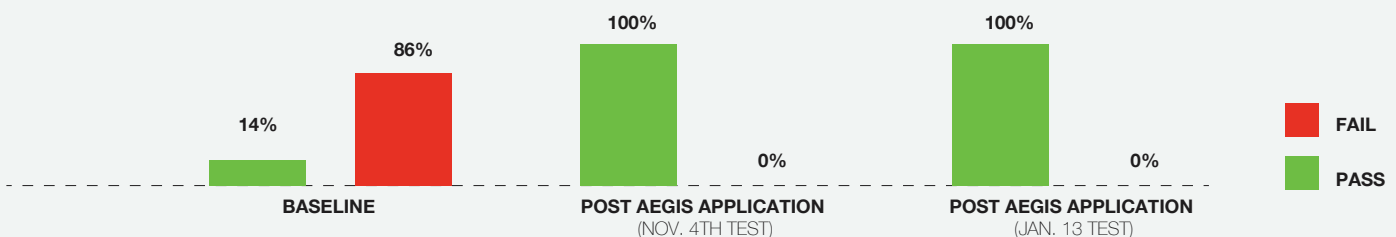
Consistent test sites were identified prior to application of AEGIS Microbe Shield. These sites are high touch point areas that often get contaminated. Test was done to measure the presence of microbial growth.

- 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

Location	Pre-Application baseline October 5 th	Post-Application November 4 th	% Reduction	Post-Application January 13 th	% Reduction	
Room #230						
Entry Handle	877	2	99.8	31	96.5	
Entry Light Switch	173	31	82.1	12	83.1	
Fridge Handle	446	20	95.5	6	98.7	
Bathroom Counter	243	10	95.9	12	95.1	
Shower Handle	196	19	90.3	2	99	
Toilet Buttons	263	8	97.0	2	99.2	
Bedroom Remote	2,024	27	98.7	38	98.1	
Main Phone	271	16	94.1	0	100	
TV Tray Table	296	32	95.6	9	97	
Kitchen Counter	141	14	90.1	10	92.9	
Room #233						
Entry Handle	565	14	97.6	0	100	
Entry Light Switch	504	0	100	12	97.6	
Refrigerator Handle	665	12	98.2	21	96.8	
Bathroom Counter	99	10	89.9	51	48.5	
Shower Handle	236	6	97.5	3	98.7	
Toilet Buttons	73	12	83.6	3	95.9	
Bedroom Remote	1,234	4	99.7	20	98.4	
Main Phone	211	5	97.7	40	81	
TV Table Tray	1,331	0	100	7	99.5	
Kitchen Counter	184	14	92.4	7	96.2	
Common Area						
Reception Counter	272	9	96.7	4	98.5	
ATM Keypad	88	8	91.0	0	100	
			Total Reduction Across Facility : 98.1%			
				Total Reduction Across Facility : 97%		

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

Is a 151-suite hotel in Fort McMurray, Alberta. They cater to both short- and long-term stays. The hotel is known for their attention to detail, their updated common areas and their sizable suites.

Best Western Plus Sawridge Suites has taken every step possible to ensure the safety of their staff and guests, including housekeepers following new, deeper cleaning protocols, a second housekeeper coming in to do disinfection (using Oxivir, the highest rated disinfectant by Health Canada) and having staff members doing continual disinfection in all common areas

In the summer of 2020 Paul Jones, the GM of the BW Sawridge, began discussing a new program with Integral Services Group, the developers of the Integral Surface Protection Program, utilizing AEGIS, by Microban. In September, Paul engaged with Integral to do a hotel-wide application of the program