

# World's First Smart Anti-microbial Coating to Control Infectious Diseases

Longest-lasting effect against the widest range of microbes

Each year, about one billion people worldwide suffer from influenza infection with fatalities reaching half a million. These figures will further increase whenever a new strain of virus emerges. Recognizing the growing threats of antibiotics-resistant micro-organisms and the inadequate effect of existing solution, Greenland Biotech Ltd. together with a team of top scientist from Hong Kong University of Science and Technology, after 10 years of extensive research, invented the Smart Anti-Microbial Coating – GermFree7.

## A New Kind of Clean

The smart anti-microbial coating was invented by HKUST's research team comprising Prof King-Lun Yeung, Prof Joseph Kwan, Prof Arthur Lau and their research assistants. Patented in the United States, Europe, China and Taiwan, GermFree7 not just eradicates harmful microorganisms, **it prevents surface contamination for another 7 days.**

*“This revolutionary coating will set a new standard in the maintenance of public health”*

Prof King-Lun Yeung, Department of Chemical and Biomolecular Engineering, HKUST

## Adaptive Prevention

The patented technology within GermFree7 includes a smart polymer that responds to contamination from touch or droplets. Whenever our hands touch the coating, or droplets land on the coated surface, it will sense the increase in temperature from the body heat or moisture from drops, and automatically release a larger amount of disinfectant that inactivates the disease-causing microbes. This prevents another person touching the same surface from picking up the germs, become infected, and further spread disease.

## Proven and Effective

Colorless and odorless, this smart coating can sustain surface disinfection from a wide range of body fluids including saliva and blood. According to test results, this smart coating kills 99.999% of bacteria in less than 60 seconds. GermFree 7 can kill bacteria, antibiotic resistant bacteria, virus, fungi, spore, and mildew including VRE, MRSA, Swine-flu Virus, Bird Flu Virus, Anthrax spore, H1N1, H5N1, SARS, SARS-CoV, H7N9, all other new virus and bacterial strains, and also inhibit mold and fungal growth.

## Key Benefits

- Easy to apply: Simply spray or wipe on a broad variety of surfaces including wood, glass, metals, ceramics, paper and cloth
- Fast and effective in killing a wide spectrum of microbes
- Safe to use, Environmentally friendly
- Approved by US Environmental Protection Agency and US Food and Drug Administration

## For More Information

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