



## ONESPRAY – CASE STUDY

### ZOONO ANTIMICROBIAL PROTECTION

#### LEADING UK HOTEL CHAIN

##### Introduction

**Zoono** is an innovative technology that aims to improve health and well-being by providing pioneering and durable germ protection. Zoono Group Ltd is a global Biotechnology company that develops and manufactures a suite of long-lasting, scientifically validated antimicrobial solutions.

Zoono is a revolutionary, residual antimicrobial protection technology. It's key features are;

- 99% water-based
- No alcohol
- Toxicity similar to Vitamin C or Coffee
- Lasts up to 24 hours on skin
- Lasts up to 30 days on surfaces and fabrics
- Ready to use formulation

Products for the UK and European markets are manufactured and distributed from the UK.

The number of key recognised users of Zoono globally are continually growing. These include but are not limited to major transport networks across Europe (including TFL, Network Rail, Paris Metro, Deutsche Bahn), leading airlines (including United Airlines, Korean Airlines), Radisson Europe, Accor Hotels, Houses of Lords & Commons, NHS trusts and more.

**OneSpray** are distributors of a range of innovative cleaning and disinfection products, with a goal to create safer working and living environments in light of the increased risk from bacteria and viruses. OneSpray's model is to support their customers through a delivery framework, providing ongoing support and assistance beyond the simple provision of products. OneSpray recognised the positive benefits from Zoono compared to traditional disinfectants in 2018 and have been partnered with them since.

## Case Study Key Highlights

Following a successful trial, a leading UK hotel chain has implemented Zoono for its high-touchpoint cleaning, across all UK sites. The key highlights were;

- Trial completed across 10 hotels versus 'control' (non-Zoono treated) hotels
- Proven to be significantly more effective in reducing contamination via ATP testing than existing protocols
- Driven a seven-figure cost-saving per annum versus existing protocols
- Resulting in the full transition from the existing 'continual touchpoint cleaning' practice to a more effective, efficient and structured Zoono programme
- Easy implementation programme

## The Zoono Technology

Zoono is a non-leaching, colourless and alcohol-free sanitiser that will modify the way the surface interacts with microbes. Zoono Microbe Shield ("Z71") is scientifically proven to be a longer-lasting, water-based protectant that has a similar toxicity level to Vitamin C.

Zoono provides an invisible protective barrier that covalently bonds to a range of surfaces to provide long-lasting protection against numerous pathogens including bacteria, fungi and viruses. A positively charged layer of microscopic pins attract and lyse negatively charged pathogens. This invisible layer of pins causes the cell wall to rupture, resulting in the pathogen breaking up with lethal effect.

It is well documented that bacteria and viruses can last for long periods of time on hands and surfaces. It is also evident that traditional disinfection has limited disruptive effect, as they are only active in their wet phase, allowing recontamination to occur once the surface has dried. Surfaces that look and smell clean can quickly become a source of numerous pathogens, enabling the spread and transmission of disease.

This is where Zoono products come into play. Zoono bridges the gap between routine cleaning processes, modifying the surface to be disruptive to bacteria and viruses. Zoono works as part of an enhanced solution for Infection Prevention and Control.

Zoono has quantitative data supporting its efficacy from many internationally recognised laboratories, alongside a growing collection of real-world case study data.

## The Trial

The purpose of the trial was to enable the leading UK hotel chain to compare the efficacy and efficiency of their existing 'continual high touchpoint cleaning' programme versus a Zoono-led alternative.



In October 2020, Channel 4's Despatches focused on studying high touchpoint cleaning procedures being used and the resultant effect on microbial activity across 4 organisations – a supermarket chain, coffee shop chain, hotel group and on London Buses. Multiple samples were taken from each scenario and tested in laboratories to evaluate the success. Of the samples taken, a large number were found to be highly contaminated therefore highlighting the limitation of this process. The exception to this was that of the London Buses – the one site which was being treated with Zoono (products used were not stated in the documentary).

The resulting conclusion was that continual and ongoing cleaning can be ineffective and due to a lack of consistency, human error and impracticality. It is also a cost-inefficient process, from both excessive product and labour costs.

The trial within the hotel chain was conducted across 10 sites over the course of one month. A selection of high touchpoint areas were treated with Zoono at the start of this period, with regular cleaning thereafter only. Over the course of the trial, ATP testing was taken at regular intervals to monitor the environmental contamination of these areas versus non-Zoono control areas.

ATP is a measure of a molecule called Adenosine Triphosphate which is present in all living organisms and is measured in Relative Light Units (RLU). Whilst ATP is a measure of all living matter, it is widely accepted within the food and healthcare industries as a quick, useful measure of environmental contamination.

The results conclusively showed superior results in the Zoono treated sites versus control areas to levels considered to be food-safe (below 30 RLU).

Separately, a consultancy firm was engaged with to undertake a detailed savings analysis, including time-in-motion studies. This proved that switching to a more effective Zoono-led programme also led to a seven-figure cost saving per annum versus the existing process.

## **The Result**

Subsequently, following the completion of the trial, the hotel chain transitioned from their existing processes to utilising Zoono for key touchpoint cleaning across all of their UK sites once every 30 days, alongside regular cleaning.

The product is applied using simple 300ml Flairosol spray bottles, which release the product as a controlled and fine mist. There are multiple application options available.

Due to ease of use and the lack of toxicity, the implementation and rollout process across all UK sites was a relatively simple exercise.



## Other Considerations

There are further benefits to consider from the use of Zoono including;

- Reduction in the use of harsh chemicals
- Reduction in 'chemical crossover' from using multiple chemicals on the same surface
- Benefits from promoting the enhancement of Infection Prevention and Control to staff and customers
- Proven reductions in staff absenteeism from the use of Zoono (case studies available upon request)

In addition to the use of Zoono Z71, we would recommend the use of Zoono GermFree24 Alcohol Free Hand Sanitiser in all sites. Each application provides protection of up to 24 hours on the skin and has been dermatologically tested, creating a more appealing and effective solution than other alcohol and non-alcohol based alternatives.

*Prepared by OneSpray Limited in September 2021*