

PRODUCT PROTECTION IN THE OFFICE

THE POLYGIENE BIOMASTER SOLUTION



Wherever people gather together the chances of exposure to microbes and the risk of crosscontamination increase. Some workplace germ hot-spots carry more harmful bacteria than the average toilet seat.¹

Enclosed environments, where people are working or interacting in close proximity with one another, are particularly at risk of the spread of germs. With people often working or moving around public areas while ill, this can quickly lead to localised outbreaks among a larger number of people.

- There are 16 million microbes on the typical office keyboard - about 3,295 per square inch.²
- Most office cleaning companies don't touch computers or keyboards because they don't want to risk causing any damage. Hygiene is left to the employee - and many don't bother.
- Office workers touch their hands to their faces an average of 18 times an hour. When we touch our faces, we bring microbes from our keyboard, desktop or phone right to our respiratory and digestive systems every three and a half minutes. Bacteria and viruses couldn't ask for a better transportation system.
- There are 25,127 microbes per square inch on the average office telephone.³
- The average mouse has 1,676 microbes per square inch.⁴
- The typical office worker's hands come into contact with 10 million bacteria every day.⁵

- Some dangerous microbes such as MRSA can live on a surface anywhere between 6 weeks to up to 7 months.⁶
- A shocking 32% of us don't wash our hands after using the toilet.

^{1,2,3,4&5} Dr. Charles Gerba, University of Arizona microbiologist | ⁶ Professor Anthony Hilton, Head of Biological & Biomedical Sciences, Aston University

Our solution: 24/7 antimicrobial product protection

Polygiene BioMaster reduces the opportunity for contaminated surfaces in the workplace around the clock by inhibiting the growth of harmful bacteria on surfaces.

- Polygiene BioMaster can be introduced into almost any item found in offices offering product protection resulting in fewer bacteria on surfaces.
- The active antimicrobial agent is built into the product during the manufacturing process, so the protection lasts for the useful lifetime of the treated article.
- The active ingredient in Polygiene BioMaster only imparts antimicrobial properties and does not affect the basic colour or surface finish of any product in which it is used.
- Independently tested in thousands of applications, Polygiene BioMaster is proven to inhibit the growth of most types of harmful bacteria.



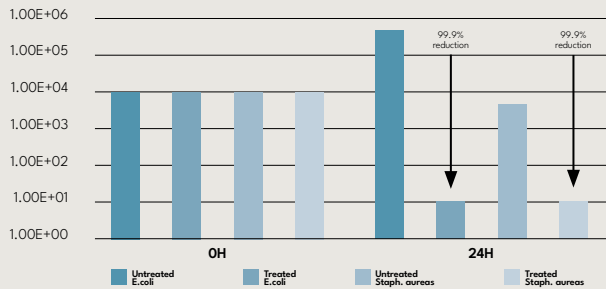
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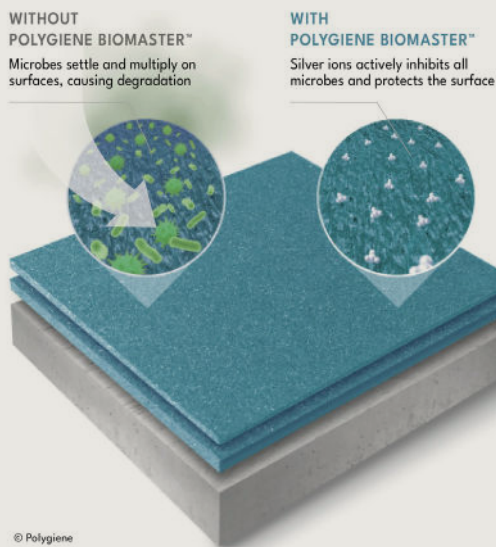
How effective is Polygiene BioMaster?

In typical tests, after 24 hours surfaces treated with Polygiene BioMaster showed a reduction in the levels of E.coli and Staphylococcus aureus by over 99% achieving ISO 22196:2011.



ISO 22196 results comparing bacterial load on an untreated surface with a Polygiene BioMaster protected surface.

How does Polygiene BioMaster work?



Here are a few examples of how Polygiene BioMaster is offering round the clock product protection in the office.

Desktops and office furniture: Polygiene BioMaster can be introduced into just about any office work surface. Multi purpose antimicrobial sheet materials are also resistant to most types of common bacteria. They are extremely versatile and ideal for office furniture.



Calculators: Recognising the high levels of shared use for its products, an international brand of desktop and pocket calculators incorporates Polygiene BioMaster into outer casings. Products range from simple pocket versions to powerful scientific models. The protection works 24/7 for the lifetime of the calculator is ideally suited for environments where levels of bacteria are of high concern.



Door handles and push plates: One of the most contaminated areas in an office block are door handles, bathroom fittings and lift buttons. Polygiene BioMaster antimicrobial powder coatings provide a durable solution for door handles, push plates and other fittings which are in high use.



Headsets: Sweat and moisture collect on and around overear headphones, compressing the skin and therefore encouraging bacteria and yeast to multiply. Headsets with inbuilt Polygiene BioMaster protected components inhibit the growth of unhealthy microbes 24/7.



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Keyboards and computer mice: An antimicrobial keyboard or computer mouse incorporating Polygiene BioMaster can offer around the clock product surface protection against harmful bacteria such as MRSA, E.Coli and Salmonella.



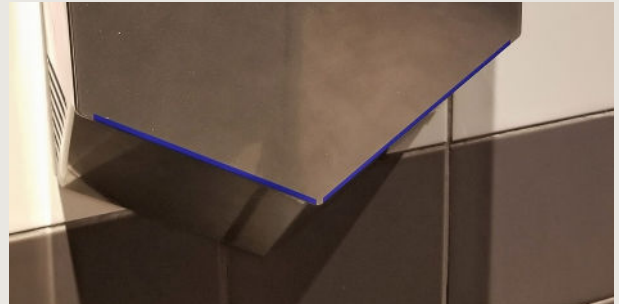
Paper and pens: Frequently handled documents are a vector for cross-contamination. A surface coating added during the print process to provide effective, long lasting antimicrobial protection for paper, and a Polygiene BioMaster protected laminated film available in a range of gauges and sizes. Writing instruments may be used for months without disinfection, making them potential carriers of infectious agents. Pens treated with Polygiene BioMaster antimicrobial technology provide a safer solution to reduce the risk of cross infection, lasting the lifetime of the pen.



Tablet and mobile phone casings: Polygiene BioMaster protected covers provide antimicrobial product protection within the case, effective against a wide range of common bacteria the antimicrobial protection offers a more hygienic case. Hard shell case has inbuilt Polygiene BioMaster antibacterial protection which reduces the risk of cross contamination and is effective against most common types of harmful bacteria.



Washroom accessories: Regular hand dryers with standard filters can simply draw in dirty washroom air and blow it back onto your hands. The advanced design of the Polygiene BioMaster protected hand dryer filters out bacteria while the protective outer casing also reduces the build-up of surface bacteria.



Water collers: A known magnet for gathering all kinds of harmful bacteria. The Polygiene BioMaster protected water cooler has inbuilt antimicrobial technology in the nozzle and filter, cup fill area and control panels providing 24/7 product protection.



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