



PURTEQ

SCIENTIFICALLY ADVANCED CLEAN

Preventative Cleaning Program

Preventative Maintenance

We treat your facility Quarterly using state of the art technology and target dangerous microorganisms where they reside.

PURTEQ®'s water, soil & Stain repellent barrier coatings are resistant to removal by any soap, solvent, detergent or pesticide. Extreme abrasive scrubbing or chemicals can affect the surface coating. Good cleaning practices are enhanced by this coating.

Cleans, Shields, & Protects surfaces in One Easy Step! PURTEQ® is an antimicrobial surface care technology that cleans with oxidizing power while simultaneously shielding surfaces with photocatalytic coatings that reduce adhesion and build-up for easier cleaning. PURTEQ® protects surfaces against the growth of bacteria, mold, mildew and infectious diseases including Viruses.

The Invisible Enemy

Bacteria and viruses are stronger than ever. They travel faster, farther, and are becoming increasingly resistant to antibiotics and traditional disinfection techniques.

The sheer size of many buildings, coupled with limited cleaning resources, has led to an alarming rise in harmful contamination present in our workplace. From Sick Building Syndrome (SBS) to the rapid growth of Community Acquired Infections (CAI's), building staff are under increasing pressure to fight these sophisticated threats with limited resources.

PURTEQ®'s disinfection and control programs include the following:

- State of the art products and equipment
- Information displayed for Customers and Employees
- Monitoring and compliance

Safe

Our preferred products have low toxicity ratings with minimal use of harmful chemical residuals.



Test Results

COMPARATIVE STUDIES

Since its inception, multiple comparative studies and readings of the PURTEQ® Process' (PURTEQ) effectiveness have been conducted internally and externally^{4,5}. A condensed summary of these studies is depicted in the graph to the right. It is clear that the dynamics of PURTEQ® mechanistic action has a dramatic reduction of infectious bacterial growth⁵-up to 1500%. This is all ultimately owing to the replenishing energy of the sun.

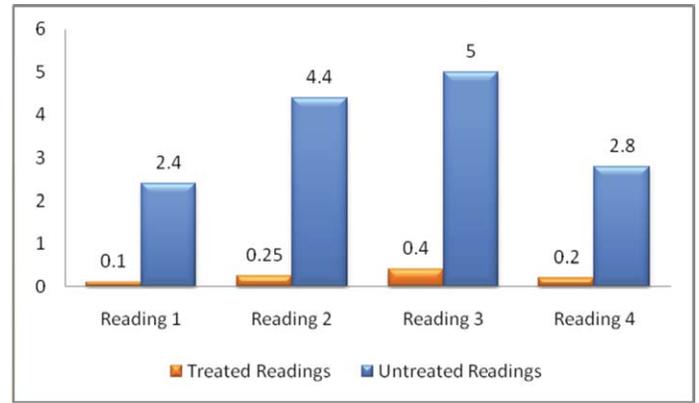
Lux Results with PurTeq® PREVENT

The graph to the side is an algorithmic display of data in - lumen ll units (lux units per meter² -) that are recognized internationally by SI6. This data affirms the highly effective nature of the otherwise innocuous PURTEQ® polymer in destroying and preventing surface bacteria growth.

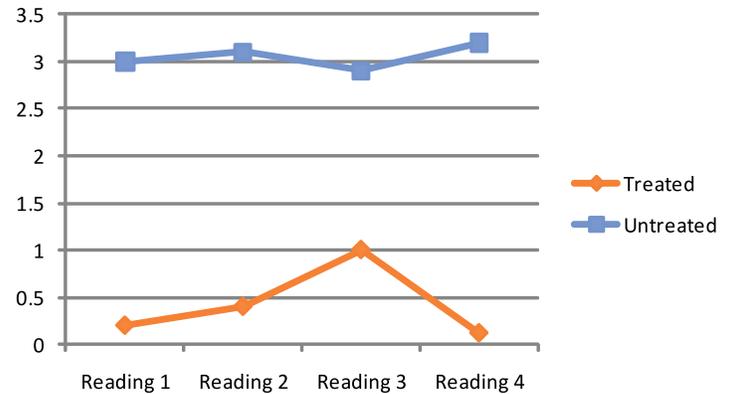
PROVEN BY SCIENCE CREATED BY NATURE

The data shown indicate that the amount of bacteria with only regular cleaning is more than three orders of magnitude higher (1000 times) without the use of PURTEQ®. This can be cause for concern in dealing with sanitizer-resistant strains of infectious bacteria in hospitals, kitchens and other arenas that can serve as breeding grounds and spring-boards for the spreading of infections⁷.

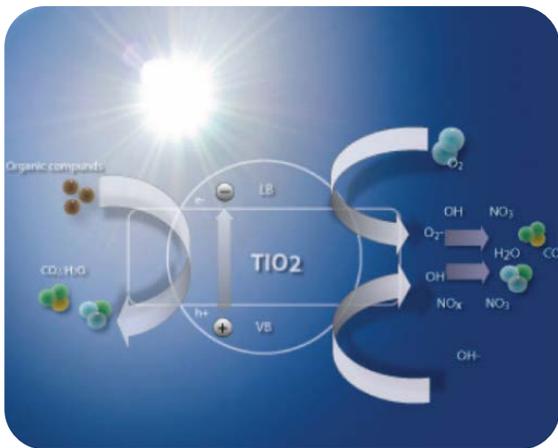
BACTERIA LEVEL OF PURTEQ® - TREATED vs. UNTREATED HDPE PLASTIC SURFACES. AFTER ~17 MINUTES UNDER UNIFORM ARTIFICIAL SUNLIGHT (254 NANOMETER) IN RLU'S



LUX RESULTS WITH PURTEQ® TREATED vs. UNTREATED BACTERIA LEVEL OF PREVENT - TREATED vs. UNTREATED HDPE PLASTIC SURFACES. AFTER ~17 MINUTES UNDER UNIFORM ARTIFICIAL SUNLIGHT (254 NANOMETER) IN LUX

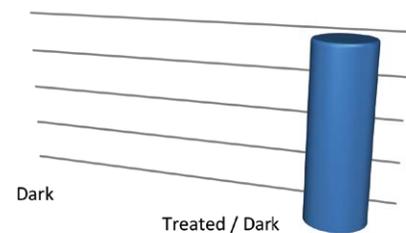


Work by Manes and others, including Akasaka⁸, prove and dramatize the importance that a specific portion of the sun's radiation spectrum plays a critical role in the interaction and destruction of bacteria cells, through electron energy transfer by the use of nano-sized TiO₂ crystals that are ~ 20 nanometers across, like those in PurTeq® (see graph below)



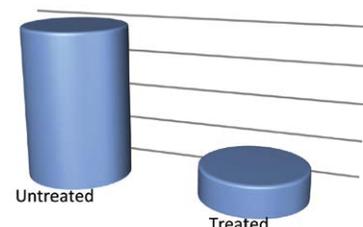
Because bacteria uses adenosine triphosphate (ATP) as an internal energy source, which is therefore necessarily always present, the quantity of bacteria in CFUs (colony-forming-units) can be measured. This is because one of ATP's moieties (molecular regions) is adenine, which has 12 π electrons. Owing to this reality ATP moieties fluoresce, and its relative concentration can be determined by use of a Hygiene luminometer, which measures fluorescence. Any similar device that measures fluorescence can also be used. Employing a Hygiene luminometer, the data on the graph to the right was collected. It clearly shows that surfaces treated with PURTEQ® had many fewer instances of bacteria propagation than surfaces that were merely washed-and-wiped-dry^{10, 11}.

Proportional Destruction of Bacteria by PurTeq® Prevent in UV Light



ZERO PRESENCE

Relative Frequency of "Non-Zero Readings" of Bacteria Levels on Treated Surfaces vs. Untreated Surfaces using ATP Analysis



Fluorescence works by energy transfer of high frequency electromagnetic radioactive photons to valence shells of matter susceptible to photon absorption and re-emission.



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Preventative Cleaning Program

We Service all Treatable Areas and Surfaces

Bathrooms

Common Areas

Store Front

Air Ducts and Vents

Touch Surfaces Such as

- **Light Switches**
- **Shopping Carts**
- **Door Handles**

And More!





PURTEQ

SCIENTIFICALLY ADVANCED CLEAN

Surface Protection from Viruses for up to 90 Days!

What is Coronavirus?

A coronavirus is a kind of common virus that causes an infection in your nose, sinuses, or upper throat. The coronavirus that is now on everyone's mind, COVID-19, was first reported in China and is causing respiratory illnesses around the globe.

What are the symptoms of COVID-19

Reported illnesses have ranged from mild symptoms to severe illness and death for confirmed coronavirus disease 2019 (COVID-19) cases. Symptoms may include fever, cough and shortness of breath but may not appear 2-14 days after exposure.

How does COVID-19 spread?

The virus is thought to spread person-to-person who are in close contact with one another (within about 6 feet) through respiratory droplets produced when an infected person coughs or sneezes.

Many Health Professionals believe the primary method of spread is by touching a surface or object that has the virus on it and then touching their own mouth, nose, or eyes. PURTEQ® can take the Fight to the surfaces where the Virus lives.

Am I at Risk of Contracting COVID-19?

It is apparent at this point that everyone may be at risk from this Virus.

How can we help protect you?

We use Enhanced cleaning products and technique's to protect your facility using state-of-the-art technologies that target dangerous microorganisms wherever they reside.

Long-Term Surface Protection - Our anti-microbial treatments can provide up to 90 days of protection against the invisible enemy.

Our Process takes the fight to the surfaces that house viruses, spores, bacteria and fungi hiding in difficult to reach areas.

Fast

Our treatments are applied quickly and efficiently, guaranteeing minimal downtime at your facility. We commonly treat after hours to minimize disruption.

Safe

Our preferred products have low toxicity ratings that attack Volatile Organic Compounds without harmful chemical residuals.

We fight to eliminate germs and prevent them from taking hold at your place of business.

The process uses advanced nanotechnology that is deadly to microbes, but harmless to humans. It may sound like science fiction, but it's not. It is all science and no fiction!

Our prevention programs can help you reduce employee absenteeism by creating a healthier environment throughout your building, including:

Offices • Corporate workout areas • Conference rooms • Cafeterias • Warehouses and more.