

## The Cleaning Power of Light

### Creating Healthier Environments –

Surfaces that people touch most often – such as door handles and exit devices – can be prime transmission points from which germs reside, multiply, and spread from person to person. Interrupting this cycle is the goal of schools, hospitals, assisted living facilities, and many other germ-sensitive environments.

Healthcare Associated Infections (HAIs) are the most common complication of hospital care, resulting in an estimated 722K infections and 75,000 preventable deaths each year. Healthcare facilities guard against the spread of infection using a range of passive and active measures, but they need help. The solution – creating ‘touchable’ products that actively attack these harmful pathogens.

Syntégra is proud to offer LumaClean™ – a light activated photocatalytic titanium-dioxide (TiO<sub>2</sub>) coating that breaks down contaminants such as germs, molds, and viruses to help facilities amplify their existing infection control protocols.

Preventing bacterial and viral transmission is possible, but it requires the right tools and a conscious commitment of everyone working together toward improving facilities, protecting students, guarding patients, and saving lives. Syntégra gives a helping hand in the fight against these transmissions by offering touchless and touchable solutions.

### Benefits –

- Kills 99.96% of virus & bacteria within 5 minutes
  - Sars-CoV-2 (Covid-19), Influenza, E-coli, MRSA, Staff, Mold, etc.
- Creates a hydrophilic, self-cleaning surface
- Activates with as little as 100 lux of direct and indirect lighting sources such as Fluorescent, incandescent, LED, and sunlight
  - Reacts with visible and UV light
  - Not depleted by cleaning
  - Endures harsh environments & chemicals
- Proven Efficacy
  - Independent testing to ASTM E1053
  - ISO Certified
- Durable, lasts for 10-15 years once applied
  - 2-3 years in high touch applications
  - EPA registered
- Doesn't change the material finish color or appearance
  - No compromise on aesthetics
- Safe
  - The active ingredient is titanium-dioxide which is an FDA approved food pigment.
- Made in USA

### Hardware Options –

- Available on standard levers and pushpad operators for all XT, PX, LX door systems

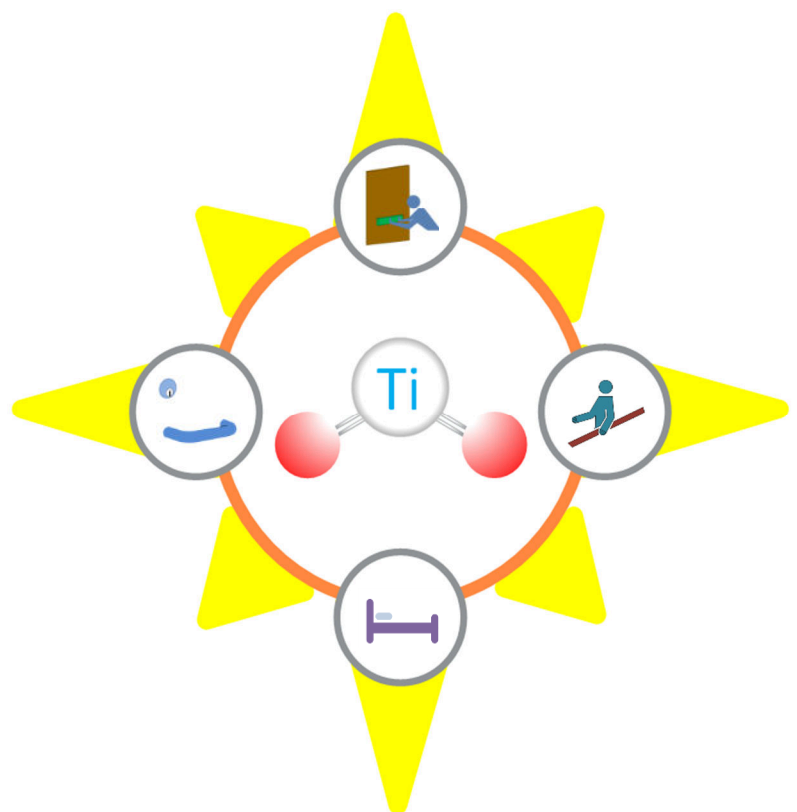


## WHAT IS LumaClean™?

LumaClean is a proprietary photocatalytic coating that uses the power of light to break down contaminants such as bacteria, viruses, and other environmental toxins. These ISO-tested coatings have strong antimicrobial properties, and test results demonstrate that the light-activated (photocatalytic) coating reduces pathogens on surfaces by more than 99.96% in a matter of minutes – not hours. LumaClean has been shown to destroy a wide variety of viruses and germs, including human coronavirus. Powered by advanced titanium dioxide nanoparticles, these particles create a hydrophilic – self-cleaning surface designed to amplify existing infection control protocols. LumaClean combines the natural oxidizing power of photocatalytic titanium dioxide with nanotechnology to create the most advanced light-activated functional surface coatings on the market.

## HOW DOES LumaClean™ WORK?

LumaClean™ uses the naturally occurring mineral of Titanium Dioxide (TiO<sub>2</sub>) in nanoparticle form to create an active surface that is photocatalytic. When exposed to light, a natural reaction occurs that breaks down contaminants at a molecular level. This process pierces the cell walls of these pathogens and renders them harmless. Used in healthcare facilities, it is a well-studied phenomenon that is a non-toxic solution for helping to keep surfaces clean. First discovered over 35 years ago, the oxidizing power created by titanium dioxide initiated photocatalysis is actually more than twice as powerful as bleach! This active process happens continuously in the presence of light which means that surfaces covered by LumaClean™ are working to protect facility occupants around the clock.



## HOW IS IT USED?

Surfaces that people touch often – such as bed rails, exit devices, door levers, faucets, wall switches, etc. can be coated with LumaClean, which kills germs 24/7 when used in conjunction with existing cleaning protocols.

LumaClean™ helps to break the infection cycle by enhancing existing cleaning procedures.

Learn more about the latest advancements in true door and hardware integration by visiting us at [www.syntegrausa.com](http://www.syntegrausa.com). Come experience The Syntégra Edge™.