

# Anti-bacterial coating for electronic lock sets



TLJ access control



5 year  
Guarantee

## Ironmongery spreads bacteria

Door handles are a major contributor to the spread of bacteria, depending on the frequency of use, temperature and humidity. Large colonies can survive on handles for relatively long periods.

The Anti-Bacterial coating offers a solution to the specific threat posed by bacteria, viruses and other microorganisms on door handles.

TLJ's factory applied coating has been independently tested by Evans Vandoline plc:

"A very large colony of *Staphylococcus aureus* (much larger than would be possible in normal conditions) was applied to a stainless steel disc which had previously been coated in the Anti-Bacterial solution. A 99.99% kill rate was achieved."

The whole process is both safe and friendly to the environment, and does not alter the appearance of the host product.

Factory applied in strictly controlled conditions to TLJ electronic lock sets a unique 'self-cleaning' action takes place, thus preventing dirt and grease from sticking to the surface. This lessens the need for strong environmentally un-friendly chemical cleaning products.

Successfully tested in the UK, Germany & Japan, the treatment is scientifically proven to kill bacteria leaving no surface residue. Details of testing are available upon request.

# How does it work?



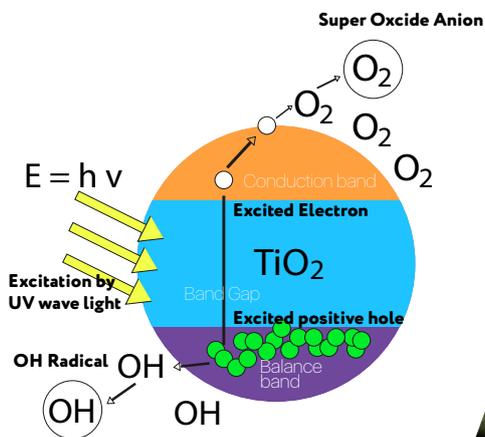
The technology is made from titanium oxide which is a photocatalyst that exhibits strong oxidising properties when exposed to UV light. It is able to decompose harmful organic compounds, kill bacteria and viruses, and eliminate odours. This reactivity is used in many environmentally beneficial applications, including water purification, atmospheric nitrogen oxide removal and self-cleaning buildings.

## The science

When it absorbs UV light, electrons are liberated from the surface atoms of the titanium dioxide layer. A chemical reaction takes place, resulting in the creation of Hydroxyl radicals. These radicals in turn react with bacteria and viruses, producing water, carbon dioxide and other harmless substances.

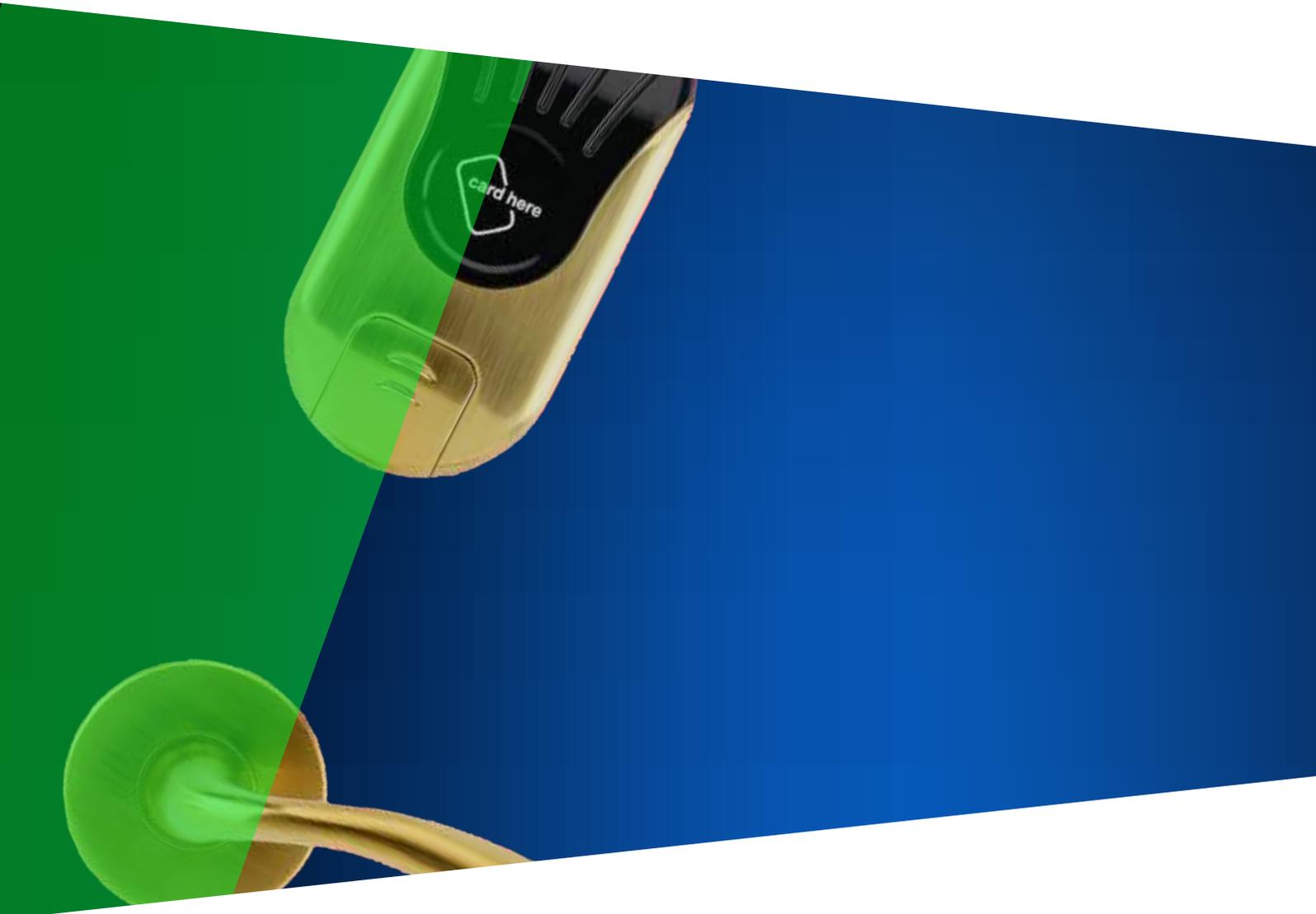
## The benefits

- Proven to start killing bacteria and viruses immediately upon contact
- Simple UV activation - permanent suppression of bacterial growth
- Easy maintenance - simply wipe clean with water
- Fit & forget - no affect on appearance or performance of lock set
- Peace of mind for guests and cleaning staff
- Powerful marketing tool - giving you a competitive edge



Surface baking process

Contact **US**



+ 44 (0) 1482 830334  
keyclean@TLJlimited.com  
www.TLJlimited.com



TLJ Access Control  
68/78 Leads Road, Hull, East Yorkshire, HU7 0BY, UK  
v1.0520

