

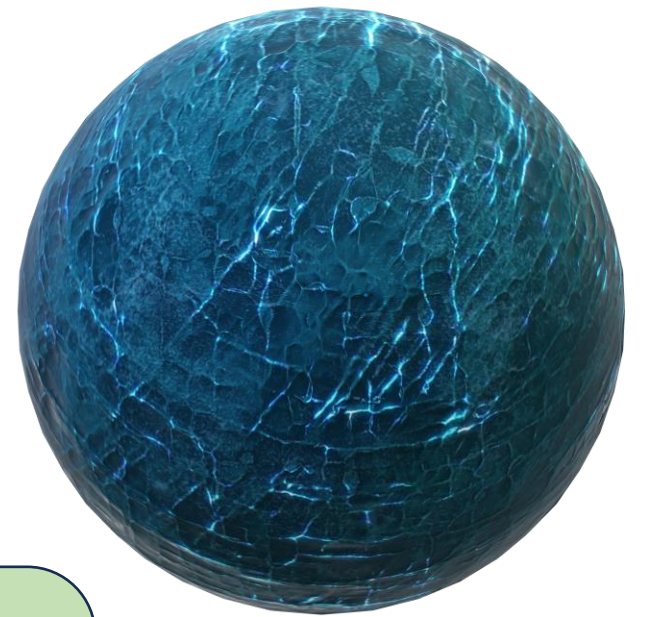


Orion Eco Solutions

www.orionecosolutions.co.uk

InvisiGard

Pioneering Sustainable Hygiene for a Healthier World



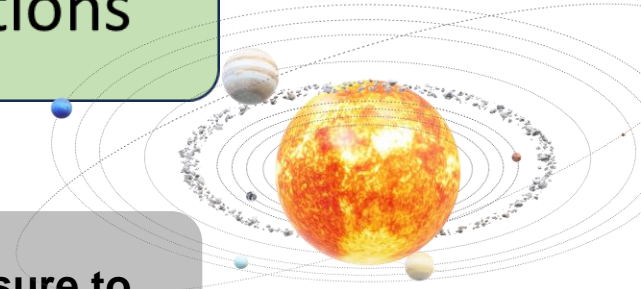
Environmentally friendly solutions that make it easier for the world to fight pathogens, VOCs, and create safe spaces for all

InvisiGard where Light interacts with Science

A New Horizon in Photocatalytic Solutions

What is InvisiGard

A New Horizon in Photocatalytic Solutions



Photocatalysts are materials that change the rate of a chemical reaction on exposure to light. This phenomenon is known as **photocatalysis**

Revolutionary Compound

InvisiGard

A titanium dioxide (TiO₂) Water based compound with exceptional photocatalytic properties

Light Activated Purification

Activated by visible light to initiate powerful oxidation, effectively targeting & reducing pollutants & pathogens

Sustainable Facilities Management

A sustainable solution by reducing reliance on chemical cleaning agents & lowering energy consumption

Enhancing Environments

Sustainability
Health & Safety
Air Quality
Quality of life
Environmental Impact



InvisiGard

Is a robust self cleaning persistent technology powered by light.

- Designed to clean surfaces
- Particles in the air
- Suppress microbial growth
- Degrading hazardous organic pollutants into harmless substances
- Allowing safe and healthy environments
- Accredited to ISO27477

Once applied it will last 6 months which means that your daily clean will become a damp cloth removing any spoilage in the full confidence of continued protection. Great news for your ESG statements.

Decomposes organic and pathogenic substances in the air

- When pathogens come into contact with treated walls and ceilings they are converted into completely harmless substances

Treats all types of surfaces eviscerating microbes before they spread

- Used in hospitals, health care, transport, businesses, homes, vehicles, buildings, lifts and many more

Authorised by ministry of health Groups PT2,3 & 4

- Certified VIRUCIDAL and BACTERICIDAL efficacy according ISO 27447: 2009 standard

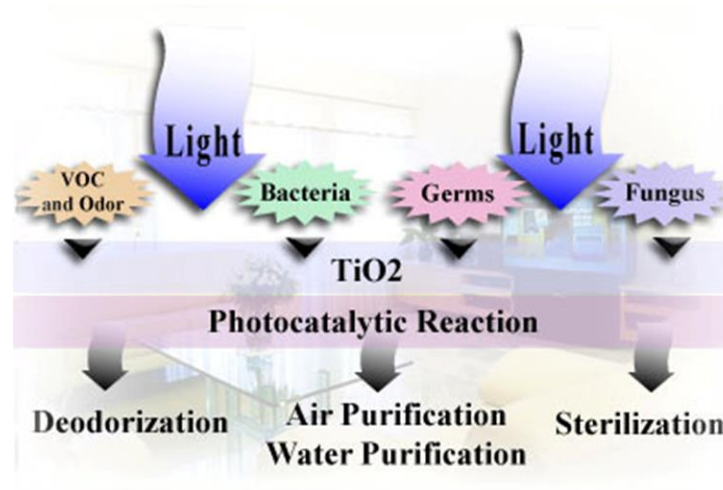
InvisiGard Process

Photocatalytic Activation

InvisiGard harnesses UVA and natural light to initiate a powerful, eco-friendly cleaning action

Microbial Destruction

Targets and oxidizes harmful bacteria, viruses and VOCs. Transforming them into harmless byproducts, without the use of toxic chemicals



Sustainable Benefits

Offers a long-lasting energy efficient solution to improve indoor air quality and create healthier environment by minimising microbial threats

ROS and Clean Air

Through the release of reactive oxygen species (ROS). **InvisiGard** actively breaks down pollutants, ensuring a continuous disinfection cycle

Enhanced Hygiene

Produces hydrogen peroxide naturally, a known disinfectant to further purify surfaces and air for superior cleanliness

Photocatalytic coatings are coatings that contain photocatalysts, such as titanium dioxide (TiO₂), which can harness light energy to catalyse chemical reactions.

When exposed to light, Photocatalytic coating can break down organic and inorganic pollutants, such as bacteria, viruses and volatile organic compounds (VOCs) into harmless substances like carbon dioxide and water.



These coatings are commonly used in building materials, air purifiers and self-cleaning surfaces to improve indoor air quality and reduce the need for chemical cleaning agents.

Target Audience





TRANSPORT

The **InvisiGard** system has been used in all forms of transport to successfully treat all types of surfaces including vehicles, trains, buses, aeroplanes, and many more. It eviscerates microbes before they spread and seals off the sprayed surface from future infections.



CRUISE LINES

Health & Safety : Proactively combats dirt and pathogens, contributing to the elimination of sick building syndrome, viruses, Norovirus and all other infections.





BUILDINGS

- The **InvisiGard System** has been used to successfully treat all types of surfaces in buildings, lifts, offices and all public areas.
- **Continuous Cleanliness:** Operated 24/7 to eliminate odours, bacteria, viruses and germs without additional machinery or maintenance.



HOTELS

Eco-Friendly: A sustainable, self-cleaning solution that avoids toxins and harsh chemicals

Health & Safety: Proactively combats dirt and pathogens, contributing to the elimination of sick building syndrome



ANIMAL HUSBANDRY

Client Testimonials Attached

Testimonials

“Having recently sprayed our calf housing with **InvisiGard** we have noticed a decrease of the smell of ammonia in the building.

The coating was easy to apply and the lighting easy to install.

We will be recoating with **InvisiGard** when a new batch of calves come into the building”.

Thanks John & Anna Booth

Rhual Dairy, Mold



Testimonials



“We have trialled the **InvisiGard** in 3 areas of our premises and are very pleased with the initial results.

There has been a significant improvement in the micro count in our lamb carcass chiller, in the sheep lairage area that was treated we have seen a huge reduction in the smell of ammonia.

The 3rd area we treated was our toilet facilities and we have also seen a reduction in odour in this area”.

Jim Hutchinson

Spennymoor Abattoir



Food & Catering

Ensuring Food Safety with InvisiGard



Antimicrobial Coating: Our coatings, activated by light significantly reduce pathogens on floor surfaces, ensuring safer preparation areas



Shelf-Life Extension: InvisiGard properties extend the shelf life of food products, contributing to less waste and greater sustainability in the food supply chain



Aroma Preservation: Actively neutralizes odours from microbial contamination, maintaining the fresh aroma of food product



Proactive Pathogen Control: Enhances existing food safety measures by offering proactive pathogen control in food processing and storage



- **Substantial Impact:** Demonstrated to reduce methane and ammonia emissions by 80%, improving environmental and operational conditions
- **Application Versatility:** Effective on various operations, including pork and poultry, with our photo-active coatings
- **Surface Compatibility:** Suitable for a wide range of surfaces, both absorbent and non-absorbent, ensuring comprehensive application



LEISURE

The **InvisiGard** System has been used to successfully treat all types of surfaces in public leisure areas. It eviscerates microbes before they spread and seals off the sprayed surface from future infections

- **Eco-Friendly: A sustainable, self-cleaning solution that avoids toxins and harsh chemicals**





OFFICES

- The InvisiGard System has been used to successfully treat all types of surfaces in buildings, lifts, offices and all public areas.
- **Continuous Cleanliness:** Operated 24/7 to eliminate odours, bacteria, viruses and germs without additional machinery or maintenance.

SCHOOLS

The **InvisiGard System** has been used to successfully treat all types of surfaces in schools and public areas.

- **Continuous Cleanliness:** Operated 24/7 to eliminate odours, bacteria, viruses and germs without additional machinery or maintenance.
- **Waste Reduction:** Decreases on-site plastic use and carbon emissions by minimising deliveries and storage needs.
- **Versatile Efficacy:** Effective indoors and outdoors, leveraging natural light to maintain clean environments





ENHANCING ENVIRONMENTS

- Sustainability:** Drives eco-friendly practices in facility management
- Health & Safety:** Inhibits the spread of pathogens, bacteria, viruses & mould
- Air Quality:** Neutralizes pollutants and airborne pathogens improving indoor air
- Quality of Life:** Eliminates odours and reduces cross-infection risks
- Environmental Impact:** Minimizes ecological footprints, enhancing welfare

Embracing a Sustainable Tomorrow with InvisiGard

- **Global Movement:** We stand at the forefront of a global shift towards sustainability. **InvisiGard** embodies this transformation, offering powerful, non-toxic solution that harmonizes with our natural world
- **Commitment to Green Practices:** By integrating **InvisiGard** into your hygiene protocols, you join a community dedicated to safeguarding health and the environment. Our technology is more than a product – it's a commitment to a cleaner, safer future

Economic and Ecological Harmony:

Adopting **InvisiGard** isn't just an environmental choice – it's a sound economic decision. Reducing chemical use, water waste and energy consumption leads to operational savings and aligns with global sustainability goals

A Legacy of Health:

Through innovation, we have the opportunity to shape the spaces we inhabit today and the world we leave for generation to come.

InvisiGard is our contribution to this legacy ensuring that every environment is as pure as our intentions

Invitation to Action:

As we stand at the juncture of change, the question isn't whether we can afford to embrace sustainability – its whether we can afford not to!



INVISIGARD Is Ready!! Are you??

Contact Us



Environmentally friendly solutions that make it easier for the world to fight pathogens and create safe spaces for all

Tim Jevons

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