

# Advanced Industrial Coatings for Antiviral and Antibacterial Protection

## ecotio<sub>2</sub><sup>®</sup> Antiviral Coatings

- ✓ Invisible coating that does not change the surface appearance
- ✓ Products are 3rd Party Tested to strict Japanese performance standards
- ✓ ecotio<sub>2</sub><sup>®</sup> is working all the time to continually break down harmful viruses, bacteria and fungus (including airborne viruses)
- ✓ Environmentally friendly as reduced use of cleaning chemicals
- ✓ Reduced lifecycle costs
- ✓ Suitable for a wide range of assets and surfaces including metal, fabric, painted surfaces, tiles, wood, concrete and plastics
- ✓ Applied by trained professional applicators for consistent performance and peace of mind
- ✓ Long lasting

## Professional Cleaning / Fog

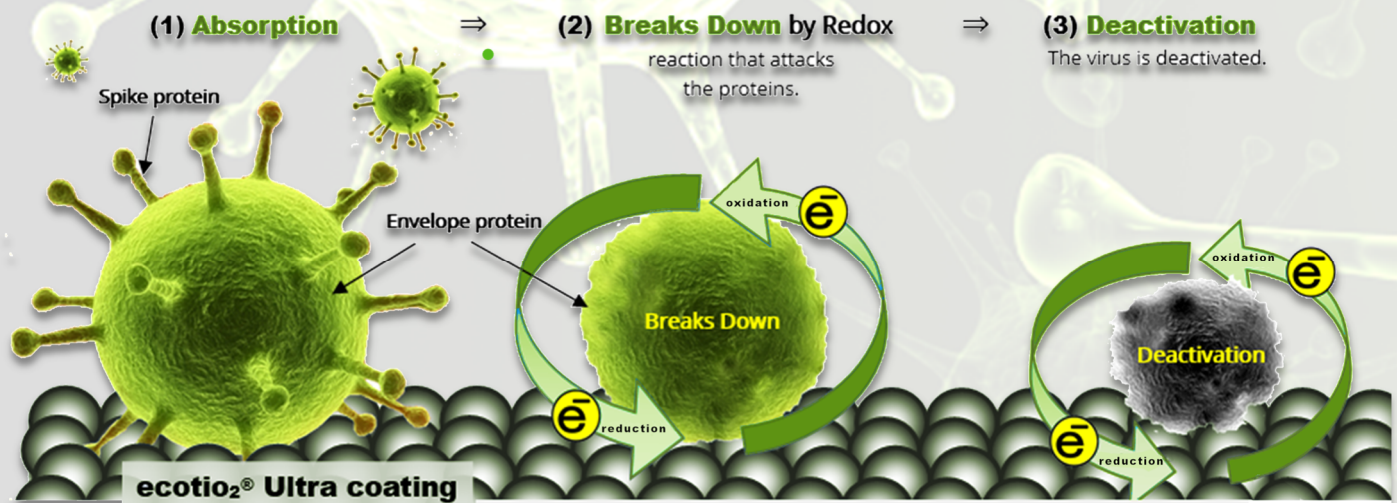
- ✘ Only temporary - Cleaning is only free from virus immediately after cleaning / Disinfectant Fogs are also only temporary (despite claims of long term effectiveness) and need regular application
- ✘ Cleaning effectiveness is only as good as the cleaner and is likely to vary
- ✘ To reduce risk the cleaning / fogs must be performed very regularly disrupting access / use
- ✘ Costs of cleaning will quickly overtake the coating application costs (Cheaper initially, but lifetime costs will be much higher)
- ✘ Use of chemicals, bleach, alcohol etc. is not good for sustainability and cleaning product costs become expensive over time
- ✘ Results can be uncertain

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## How it works



ecotio2® - Redox reaction\* oxidises the protein envelope.

## Product information

- ❖ Advanced Nano catalyst technology
- ❖ Product performance certified by SIAA (Institute for Antimicrobial Products Technology).
- ❖ Suitable for walls, floors, touch points, handles, buttons, handrails and more.
- ❖ Substrates are protected against viruses, bacteria and fungus that contact these coated surfaces.
- ❖ Internal air quality improvements as the catalysts deodorise and oxidise pollutants.
- ❖ Long lasting functionality that can be quickly tested using the same equipment used to test for bacteria.
- ❖ Use is safe to humans as tested by leading independent laboratories.

## Locations currently used

- ❖ Governments and Councils assets.
- ❖ Schools, Universities and Childcare.
- ❖ Age care and Retirement living.
- ❖ Food processing and production.
- ❖ Hospitals and Medical centres.
- ❖ Public transport – Buses, Ferries, Trains
- ❖ Commercial buildings / Strata living.
- ❖ Hotels, Resorts, Pubs and Clubs.
- ❖ Retail, Cinemas, Malls, Entertainment venues.
- ❖ Correction centres.
- ❖ Surgeries and Tattoo studios.
- ❖ Airlines, Cruise ships,

## Surface types

Available in both water based and dual component products enabling coverage on

- ❖ Glass
- ❖ Metals
- ❖ Timber
- ❖ Plastics
- ❖ Fabrics
- ❖ Tiles
- ❖ Painted surfaces
- ❖ Concrete

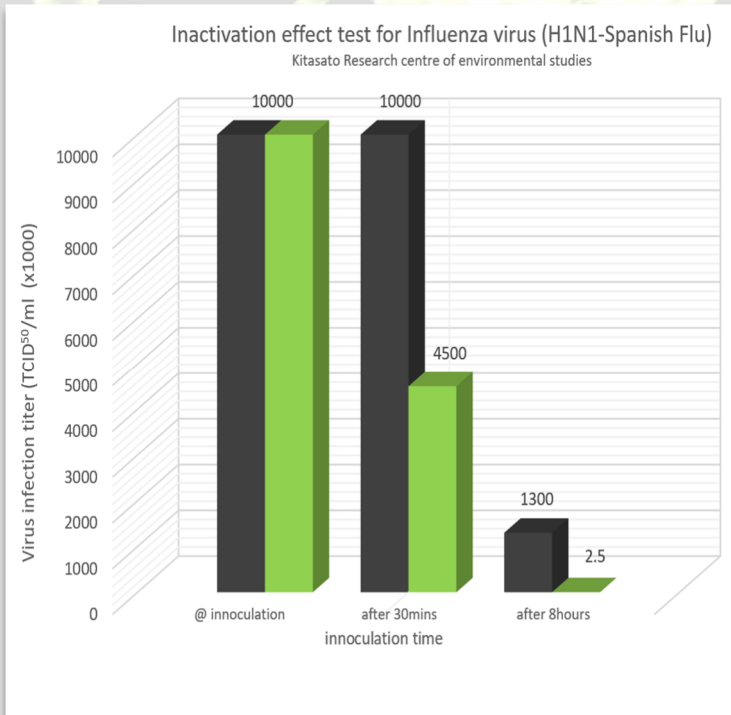
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## Test results

### Influenza A Virus H1N1 (Spanish Flu)

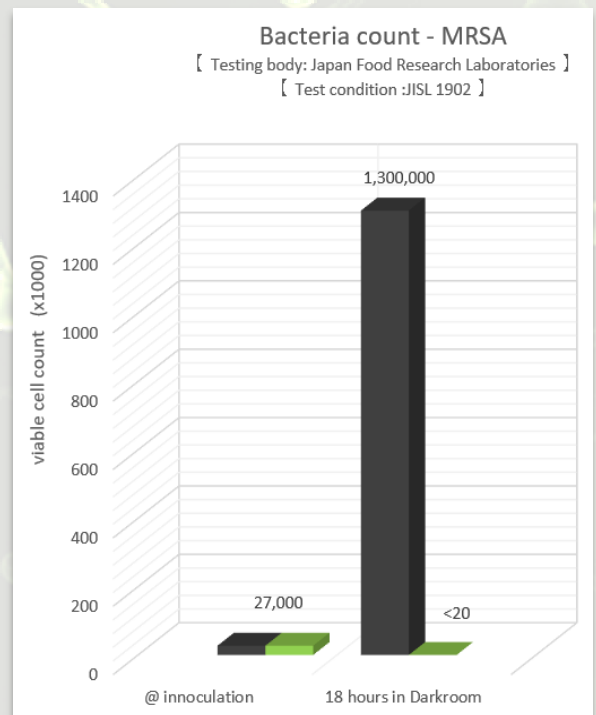


#### Viral inactivation rate

ecotio2® - 55% reduction in 30 minutes

ecotio2® - 99.975% reduction in 8 hours

### MRSA – Superbug



#### Bacteria count - Darkroom

ecotio2® - 99.95% reduction in 18 hours

control sample – 50x increase in 18 hours

#### \*Antivirus Verification – all test results available

The antivirus property of ecotio2® ultra was verified by **Kitasato Research Centre** on Environmental Sciences in December 2009. Ecotio2® ultra was produced based on the verification results that its reduced value of infectivity logarithm concerning A-type influenza virus H1N1 is 2.72log10 (standard for antivirus verification: 2.00log10 or more) and its inactivation effect (virus reduction rate) is 99.975 %

#### \*Anti -bacterial Verification

The antibacterial property of ecotio2® ultra was verified by: **Japan Food Research Laboratories. Test condition: JISL 1902**



SIAA Certified Product SIAA marks are displayed on the products whose quality control and information disclosure are in accordance with the guideline The SIAA mark certifies the compliance of only this product with SIA The SIAA mark certifies the compliance of only this product with SIAA, The SIAA mark certifies the compliance of only this product with SIAA.

set by the Society of Industrial Technology for Antimicrobial Articles.

Please contact Photocat NZ Ltd

0800 Ecotio2 or visit [www.ecotio2.com](http://www.ecotio2.com) for more information

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