

Silverion Hygiene+

Powered by Nanova hygiene+™

SAFE. SCIENTIFIC. SELF-SANITISING.



■ INTRODUCING

24/7 self-sanitising
protection for your surfaces
lasting 90 days.

Silverion Hygiene+ is an invisible coating applied to surfaces that actively kills bacteria and viruses on contact.

The spray creates a protective barrier that self cleans while also protecting the surface from water, dirt and dust due to its low surface energy. Unlike damaging cleaning and disinfectant products, there is no need to repetitively wipe your surfaces – this hygienic long lasting antimicrobial protective barrier works around the clock even though you cannot see, feel or smell it.

*Tested under lab conditions by the National Immunogenicity & Biologics Evaluation Centre with a demonstrated efficacy greater than 99%

■ KEY FACTS

- Scientifically proven to kill 99% of bacteria and viruses including COVID-19* for up to 90 days
- Safe for humans and pets - 98% water based
- Invisible and odourless
- Applicable to any hard or soft surface
- Fast drying
- Cost efficient and effective

Distribution Partner -



■ SILVERION HYGIENE+™

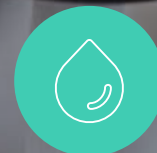
A surface coating that provides 99% germ protection without harsh chemicals

Silverion Hygiene+ 90-day coating is a clear water-based spray that forms an invisible self-sanitising microfilm that keeps your surfaces free from microbes including pathogens, bacteria, germs, and viruses.

The product can be applied to any surface significantly reducing the need for regular disinfection. Silverion Hygiene+ helps to keep surfaces and places COVID safe. Our product is purposefully designed to give peace of mind and is safe for use in all indoor areas for people and pets.

Recommended for:

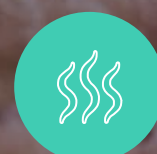
WORKPLACES	LEISURE AND TOURISM	EDUCATION, CHILDCARE AND AGED CARE
Offices	Shopping centres	Aged care residences
Shops	Theme parks	Assisted living
Government facilities	Cinemas	Retirement villages
Factories	Hotels	Childcare centres
Transport	Restaurants	Kindergartens
Building sites	Transportation	Schools
Hotels and restaurants	Airports	Universities
	Public spaces	Colleges



WATER BASED



BREATHABLE



ODOURLESS



SAFE

Our patented polymer combines optimum levels of quaternary ammonium salts (Quats) and centuries old Silver Ion science to create safe long-lasting protection from 99% of bacteria and viruses including COVID-19*.

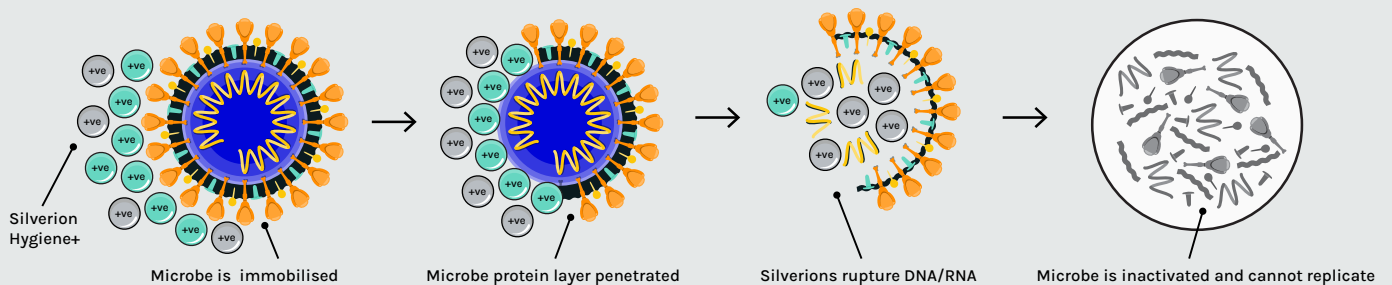
Summary

Silverion Hygiene+ contains a unique polymer which is created with the combination of silver nanoparticles and non-migratory quaternary ammonium salt disinfectant. When microbes such as bacteria, virus, mould and mildew come in contact with the coated surface, the extremely effective combination depletes them by disrupting their ability to generate energy, slowing growth and ultimately causing die off.

Key

+ve Quats

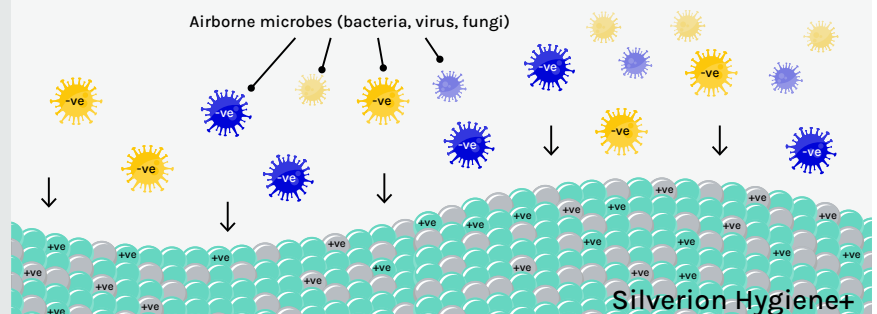
+ve Cationic Silverions



The process consists of 3 stages:

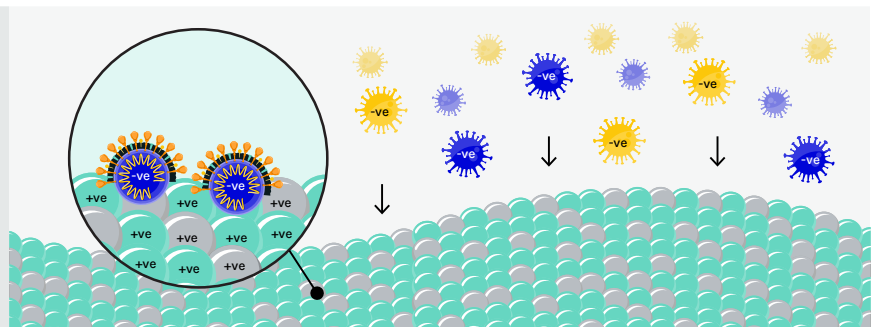
1.

When microbes such as bacteria, viruses and fungi which are negatively charged come into contact with our protective coating, the positively charged Quats contained in the polymer immobilise the microbe.



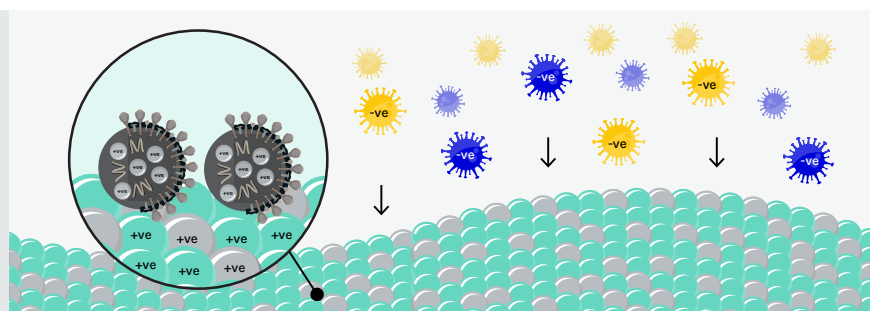
2.

Quats or Silver nano particles dissolves the outer protein layer of the microbes.



3.

The silver ions are now able to inactivate the microbe and rupture the RNA in a virus or DNA in bacteria which prevents them from replication.



Is it safe?

Silverion Hygiene+ safe for use in your workplace, leisure venues and homes. It has no cytotoxicity and is a 98% water based spray applied in a highly stable and non-leaching form.

Once the coating has dried the surface self sanitises for up to 90 days actively reducing the need for the use of harsh chemical cleaners.

Key Features

- Patented, proven, unparalleled, antimicrobial nanotechnology
- Combines the penetration power of Quats with the powerful killing and inactivating Silver Ion particles in one stable active ingredient – no leaching compared with competitive quats based products
- Proven to kill COVID-19 in US lab to 21702 ISO standard
- Proven protection from and reduction of mould, fungi and other microbes
- Can form part of a simple cleaning or maintenance routine
- Contributes to an overall system of best practice hygiene protection for protection of surfaces

Key Benefits

- Reduced cleaning costs as surfaces need less active cleaning
- Creates safe and sanitised spaces for work/leisure/home
- Excellent to apply after a COVID-19 deep clean
- Provides up to 90-days of long-lasting protection
- Cost effective
- Importance of hygiene and sanitisation has never been a higher priority
- Providing safer environments during the pandemic and next phase – very important while we “live with COVID”
- Reduces the bacterial and viral load making surface transmission harder
- Anti-dust and hydrophobic properties helps protect surfaces
- Prevents the need for deep cleans
- Can be included as a key part of the govt mandated COVID-19 safety plan
- Minimal downtime to apply, can be scheduled around peak hours
- Provides protection of assets and their surfaces from wear and tear and damage caused by excessive disinfection and wiping
- Protects surfaces from microbes, reducing the need to for cleaning frequency

How is it applied?

Silverion Hygiene+ is easy to apply and can be purchased in a handy 750mL spray bottle or 5ltr and 20ltr drums, for larger areas or for commercial use. The application process requires good cleaning of the surface prior to application. The spray is then used to coat the entire surface using either the pump pack or a commercial sprayer and left to dry for 2 hours for the coating to form a seal. PPE is worn during the application process.

Coverage and time for application

1 litre of Silverion Hygiene+ will cover up to 60sqm of surface area. We estimate 1 minute of application time per sqm of area for general spraying, for high touch areas or manual application more time is needed.

Recommended Uses

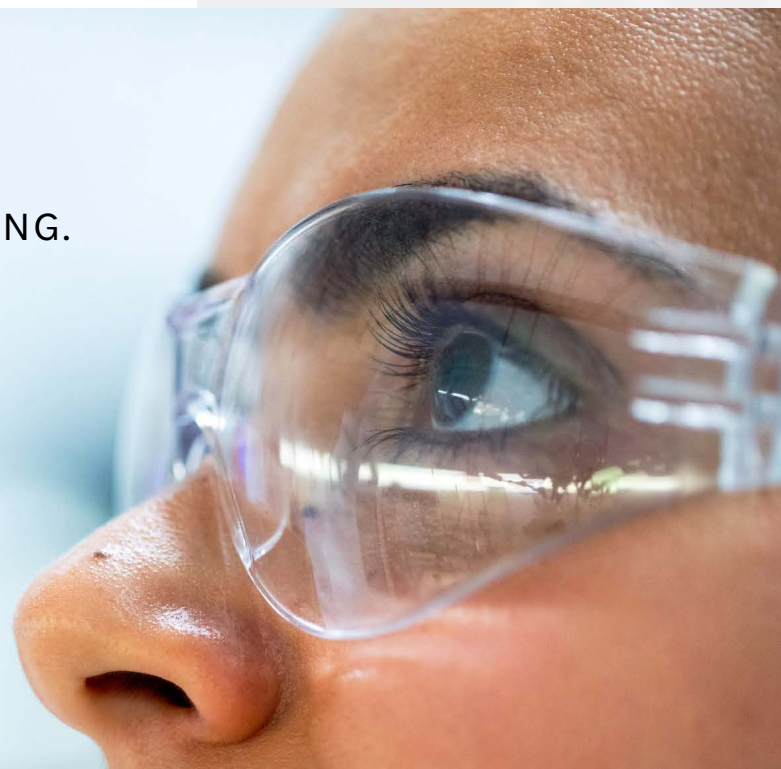
All types of surfaces and touchpoints including furniture, furnishings, hardware, metal, plastics, tiles, electronic devices, control panels and many more.

Other Products

Our patented Silverion+ antimicrobial range provides long lasting protection against microbes, bacteria and viruses including COVID-19* and includes a 90 day spray, airconditioning filter solution, fabric care, wall paint & epoxy. Our protective coatings and barriers compliment existing hygiene and cleaning processes to provide the ultimate 24/7 protection in workplaces, leisure environments and homes.

■ SILVERION HYGIENE+

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FAQs

1. Is Silverion Hygiene+ safe for my children, pets and vulnerable family members?

Yes, Silverion Hygiene+ is completely safe to use on household items that your family use every day – just make sure that they are thoroughly cleaned before applying Silverion Hygiene+.

2. Can I use Silverion Hygiene+ outside?

Yes, Silverion Hygiene+ is UV stable, so it won't break down in outdoor conditions.

3. Is Silverion Hygiene+ safe for my pets?

Yes, Silverion Hygiene has no cytotoxicity, and it is completely safe for dogs, cats, and other pets as soon as the coating is dry.

4. Does Silverion Hygiene+ have an expiry date?

Yes. Silverion Hygiene+ has a shelf life of 24 months from manufacture.

5. Is Silverion Hygiene+ safe to apply to my timber furniture?

Yes. Silverion Hygiene+ will not affect timber or any other natural surface. Simply ensure that surfaces are clean prior to the coating being applied.

6. How many coats of Silverion Hygiene+ do I need to apply?

Just one coat of Silverion Hygiene+ is required to protect your surfaces from viruses (including COVID-19), bacteria and other microbes.

7. What's the difference between antimicrobial and antibacterial?

An antimicrobial is effective against a wide spectrum of microbes: this includes bacteria, mould, fungi and even viruses. An antibacterial, on the other hand, is only effective against bacteria.

8. How long does it take for the coating to be effective after contamination?

Our testing proves the surface to be 99% free of microbes and bacteria 30 minutes after contamination.

9. How many cleaning wipes will the coating last for?

Silverion Hygiene+ has been proven to last for at least 500 wipes using strong disinfectants. If the surface is likely to be cleaned more frequently than this then we suggest reapplying the coating earlier than 90 days.

Compilation of test data

Test Standard	Test Description	Micro-organism	% Reduction	Test Laboratory
ISO 21702	This test specifies method for measuring antiviral activity on plastic and other non-porous surface of antiviral-treated products against specified virus.	SARS CoV-2 (Covid 19)	99.02	National Immunogenicity & Biologics Evaluation Center-Interactive Research School for Health Affairs
		Human Corona 229E	99.37	Nelson Labs USA
		Influenza A virus (H3N2): A/Hong Kong/8/68: ATCC VR-1679.	99.66	Biotech Testing Services
		MS2	>99.98	Biotech Testing Services
		MS2 (After 3 months)	99.98	Biotech Testing Services
		MS2 (After 8 months)	99.67	Biotech Testing Services
ISO 18184	Determination of antiviral activity of textile products	Human Corona Virus 229E	99	Nelson Labs USA
EN 14476	Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of virucidal activity in the medical area - Test method and requirements	MS2	99.99	Biotech Testing Services
EN 14476	Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of virucidal activity in the medical area - Test method and requirements	Bovine Corona Virus (Stain S 379 Riems)	99	Eurofins Product testing India Pvt. Ltd.
EN 1650:2008	Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics u food, industrial, domestic and institutional areas	Candida albicans ATCC 10231	99.9901	D technology pvt. Ltd.
		Aspergillus niger ATCC 6275	99.2873	
BS EN 1276	Chemical Disinfectants and antiseptics - Quantitative suspension test for the evaluation of Bactericidal activity of Chemical disinfectants and antiseptics used in Food, Industrial and domestic areas (phase 2/ step 1)	Staphylococcus aureus ATCC 6538	>99.999	Biotech Testing Services
		Escherichia coli ATCC 10536	>99.999	
		Pseudomonas aeruginosa ATCC 15442	>99.999	
		Enterococcus hirae ATCC 10541	>99.999	
JIS Z 2801	Evaluation of Antimicrobial Activity of Samples	Staphylococcus aureus ATCC 6538	>99.99	Intertek
		Escherichia coli ATCC 8739	>99.99	
JIS Z 2801 (After 3 months)	Evaluation of Antimicrobial Activity of Samples	Staphylococcus aureus ATCC 6538	99.42	Biotech Testing Services
		Escherichia coli ATCC 8739	99.32	
JIS Z 2801 (After 8 months)	Evaluation of Antimicrobial Activity of Samples	Staphylococcus aureus ATCC 6538	99.06	Biotech Testing Services
		Escherichia coli ATCC 8739	99.05	
"ACUTE DERMAL IRRITATION AND CORROSION"	Dermal Irritation and Toxicity test	New Zealand White Rabbit	Skin Irritation Index : 0.00 and Non Irritant and Non Toxic	APT Testing and Research Pvt. Ltd.
US FDA 175.300	Global Migration test	Stimulant : Distilled water	Meet the requirements of non-leaching	CSIR-Central Food Technological Research Institute
RoHS test	RoHS Annex II of 2011/65/EU and Amendment (EU)2015/863 RoHS-3	Metal components	PASS	Intertek