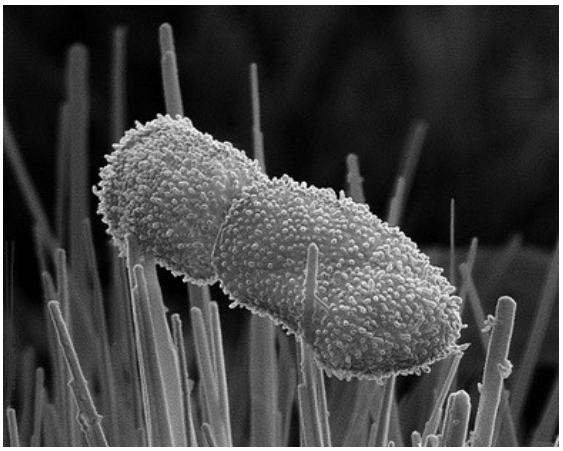
Forcefield™
NANO TECHNOLOGY

24 hour protection against Bacteria, Mould & COVID for up to 30 days TGA certified.

Forcefield is the next generation of superior hospital grade disinfectants, which is also Australian owned and made.

Forcefield 4in1+ Protector Hospital grade disinfectant is the first and only product to be ARTG listed for up to 30 day ongoing protection against bacteria, mould and COVID from a single application. Forcefield's 4in1 + Protector formula brings together the proven effectiveness of QAC's (quaternary ammonium chlorides) and the next generation of nano technology.

Once applied to a surface and allowed to dry, the active ingredients within Forcefield binds to the surface creating a Nano-film with thousands of positively charged spikes which attracts and penetrates the cell wall of the organism (see picture below). This minimises contamination spread, cell mutation and the creation of multi-resistant organisms.



Protection you can see

Forcefield Nano Technology leaves a lasting protection on surfaces you can easily test to see the activity in seconds.

Regularly testing the treated surface using a "Quat Check" litmus paper is an accurate guide for when to reapply Forcefield 4in1 + Protector for full protection.

Its simple.... and only costs cents per test!

Once a surface has been cleaned and treated with Forcefield;

Come back a day, week or month later and lightly dampen the surface with water, then lightly rub a small strip of the test strip in a 5cm x 5cm section of the damped surface.

The colour indicator on the test strip case indicates the strength of the product on the surface. Light green / 400ppm is the target level for full protection, if the reading is orange/brown >400ppm the surface requires re-treatment with Forcefield.

The link below is how test a treated surface

https://youtu.be/mFCs_u0lGH0

Forcefield 4in1 + Protector

Our formula has been Australian and UK lab tested to show the active ingredients within the product binds to the surface creating a Nano film that gives 24 hour protection for up to 30 days against germs, bacteria, fungi (mould) and COVID-19.

Features of 4in1 + Protector

- Water based
- Non-flammable
- Low-irritant
- Environmentally friendly
- Physically kills >99.99% of, bacteria, mould and COVID
- Suitable for all surfaces (except medical devices)
- Easily adapted into current policies and practices.
- Minimizes risk of contamination spread, cell mutation and the creation of multi-resistant organisms
- Neutralizes musty/mouldy and bad smells
- One treatment can give up to 30 day 24 hour protection

A ULV (Ultra Low Volume) fogging treatment of a furnished 600m2 area, typically takes less than half an hour to complete and requires minimal provisions and training to conduct.

The product does not harm timbers, gyprock, paintings nor any materials such as wool, silk, leather or synthetic fabrics.

The link below is how a fogging treatment is completed

https://youtu.be/vRkOK0lOjFQ

Benefits of incorporating Forcefield's Technology in the current world climate

- 24/7 active surface protection minimising the spread of germs, bacteria, mould and COVID.
- Cost effective wiping or fogging treatment coverage up to 600m3 per litre.
- Fast and effective treatment for total indoor environments with only approx one hour required to complete treatment and safe to reoccupy.
- Offers an extra level to infection control and environmental safety to the occupants.
- The reassurance should personnel not follow standard hygiene procedures; there is an extra layer of protection working 24/7.
- Forcefield works in synergy with standard cleaning procedures.
- Antimicrobial effectiveness will continue throughout the life of the product.
- Forcefield's invisible coating stays adhered/impregnated to the surface it is applied to, unlike basic QAC, chlorine, silver or triclosan formulas.
- The technology takes advantage of the weakness of the cell wall and ruptures it with this physical/electrical force, like popping a balloon with a pin.
- As Forcefield mode of kill is physical it does not allow for multi-resistant super-bug development.
- Forcefield is non-leaching, further minimizing environmental exposure to any chemicals.

Frequently Asked Questions

Q: HOW DOES THE FORCEFIELD NANO-TECHNOLOGY WORK?

A: The active ingredients within Forcefield forms a colourless, odourless, positively charged polymer that molecularly bonds to the surface. The strong positive charge disrupts the cell membrane of microorganisms that come in contact with the active surface, thereby causing their cytoplasm and organelles to leak out. It resembles popping a water balloon. Because of this physical kill mechanism, Forcefield does not promote the development of multi-resistant super-bugs.

Q: DO I STILL HAVE TO CLEAN THE SURFACE REGULARLY?

A: Because Forcefield is continuously destroying germs, bacteria, mould and COVID that comes into contact with it, you should still clean the surface to remove the dust, dirt and dead cell debris.

Q: IS FORCEFIELD ENVIRONMENTALLY FRIENDLY?

A: Forcefield is environmentally responsible because it is a water-based solution. It does not contain any volatile organic compounds and decays in landfills to commonly occurring material like silicon dioxide (sand), carbon and nitrogen oxides and water.

Q: WHAT BENEFITS DO MY CLEANERS GET FROM PRODUCTS WITH FORCEFIELD ANTIMICROBIAL PROTECTION?

A: Forcefield protection continuously fights the growth microbes such as bacteria, mould and COVID.
Forcefields protection also makes the surface easier to clean next time, as the nano coating fills the micro pores of the surface.

LAB TEST DATA OVERVIEW

TESTED ORGANISMS	CONTACT TIME	REDUCTION
EN14476	**COVID Surrogate**	
Quantitative suspension test for evaluation of virucidal activity in the medical area		
Feline coronavirus	**5min**	**>99.99%**
ASTM E1053	**COVID Surrogate**	
Quantitative non-porous surface test for evaluation of virucidal activity in the medical area		
Murine hepatitis	**5min**	**>99.9%**
EN16777 – 7 days	**COVID Surrogate**	
Assessment of the 7 day residual activity of a surface disinfectant using EN16777 chemical disinfectants and antiseptics. Quantitative surface test for the evaluation of virucidal activity in the medical area.		
Human coronavirus 229E	**5min**	**>99.99%**
EN16777 – 30 days	**COVID Surrogate**	
Assessment of the 30 day residual activity of a surface disinfectant using EN16777 chemical disinfectants and antiseptics. Quantitative surface test for the evaluation of virucidal activity in the medical area.		
Human coronavirus 229E	**5min**	**>99.99%**
EN1276		
Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (Phase 2 Step 1)		
Pseudomonas aeruginosa	**5min**	**>99.999%**
Staphylococcus aureus	**5min**	**>99.999%**
Enterococcus hirae	**5min**	**>99.999%**
Escherichia coli	**5min**	**>99.999%**
EN13624		
Chemical disinfectants and antiseptics — Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area – (phase 2, step 1)		
Aspergillus brasiliensis ATCC	**5min**	**>99.99%**
Candida albicans	**5min**	**>99.99%**

TESTED ORGANISMS	CONTACT TIME	REDUCTION

EN13697

Chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas (Phase 2, step2)

Pseudomonas aeruginosa	**5min**	**>99.999%**
Staphylococcus aureus	**5min**	**>99.99%**
Enterococcus hirae	**5min**	**>99.99%**
Escherichia coli	**5min**	**>99.99%**
Aspergillus brasiliensis ATCC	**15min**	**>99.9%**
Candida albicans	**15min**	**>99.9%**

EN13697 – 7 days

Assessment of the 7 day residual activity of a surface disinfectant using chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas (Phase 2, step2)

Pseudomonas aeruginosa	**5min**	**>99.999%**
Staphylococcus aureus	**5min**	**>99.99%**
Enterococcus hirae	**5min**	**>99.99%**
Escherichia coli	**5min**	**>99.99%**
Aspergillus brasiliensis ATCC	**15min**	**>99.9%**
Candida albicans	**15min**	**>99.9%**

EN13697 – 30 days

Assessment of the 30 day residual activity of a surface disinfectant using chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas (Phase 2, step2)

Pseudomonas aeruginosa	**5min**	**>99.999%**
Staphylococcus aureus	**5min**	**>99.99%**
Enterococcus hirae	**5min**	**>99.99%**
Escherichia coli	**5min**	**>99.99%**
Aspergillus brasiliensis ATCC	**15min**	**>99.9%**
Candida albicans	**15min**	**>99.9%**

EN13727

Chemical disinfectants and antiseptics — Quantitative suspension test for the evaluation of bactericidal activity in the medical area — Test method and requirements (phase 2, step 1)

Pseudomonas aeruginosa	**5min**	**>99.999%**
Staphylococcus aureus	**5min**	**>99.999%**
Enterococcus hirae	**5min**	**>99.999%**
Escherichia coli	**5min**	**>99.999%**