

INTERIOR

HEALTH & HYGIENE FILM

ANTIMICROBIAL FILM

Silver-Ion Surface Protection • Interior Application

A clear, adhesive-backed film that embeds silver-ion antimicrobial technology into the surface layer. Applied to glass, glazing, and hard interior surfaces, it stays active in the gap between cleanings, the window in which untreated surfaces build up the biofilm where bacteria multiply. Engineered for healthcare, laboratory, and food-service environments where surface hygiene is specified, not assumed.

- Reduces 99.99% of tested bacterial strains (ISO 22196)
- Engineered to remain active for up to 5 years
- No nanoparticles
- Silver-ion protection active continuously, 24 hours a day, 7 days a week
- Tested non-irritant, compatible with incidental skin contact

Key Strengths



99.99%

Bacterial Reduction, ISO 22196



24/7

Continuous Protection



5

Years Active Protection



0

Nanoparticles

How It Works

Bacteria need moisture to multiply. The film is watertight and forms a barrier at the surface, and during cleaning, or whenever humidity is present, silver ions are released from its outer layer. On contact, the ions disrupt bacterial metabolism and interfere with reproduction, working before a biofilm has the chance to establish itself.

WHY BIOFILM IS THE REAL RISK

- Biofilm is a microbial layer that forms rapidly on unprotected surfaces between cleaning cycles
- Silver ions destabilize the biofilm matrix and inhibit bacterial growth within it
- It is where bacteria proliferate and become harder to remove with routine cleaning alone
- Protection continues in the gap between two cleanings, and in areas manual cleaning rarely reaches

Rapid

Fast penetration into the bacterial cell on contact.

Powerful

Active at very low ion concentration.

Sustained

Continuous activity, 24 hours a day, 7 days a week, engineered to last up to 5 years.

Proven Performance

Efficacy is measured by contact test per ISO 22196, the standard method for quantifying antibacterial activity on plastics and other non-porous surfaces.

TEST METHOD – ISO 22196

01

A colony of 10⁶ bacteria is deposited on a neutral surface and, separately, on the antimicrobial film.

02

Both surfaces are incubated for 24 hours at 35°C.

03

Surviving colonies are counted: roughly 10⁶ colonies on the untreated surface versus 10² on the film.

04

That gap is a 4-log reduction, equal to 99.99% of the bacterial population.

RESULTS BY STRAIN

BACTERIAL STRAIN	REDUCTION	LOG REDUCTION
Salmonella enterica subsp. enterica	99.99%	> 4.6
Listeria monocytogenes	99.99%	> 4.2
Staphylococcus aureus	99.99%	> 4.1
Escherichia coli	99.99%	> 4.5
MRSA	99.99%	> 3.5
Pseudomonas aeruginosa	99.99%	> 5.7

Logarithmic reductions obtained with silver ions can vary by technique, incubation time, and test medium used. Data is not contractual — refer to our warranties and general sales conditions.

Safety & Compliance

Antimicrobial performance is only useful if the film is also safe to specify around people. Skin-contact and composition testing were run alongside the efficacy testing.



Skin Tolerance

Tested non-irritant; no irritant effect identified on incidental contact with human skin



Composition

No nanoparticles used in the antimicrobial layer



Environmental Profile

Manufacturer-reported as ecologically favorable, with no nanoparticle content



Test Standard

Antibacterial activity verified per ISO 22196

RELEVANT FOR REGULATED FOOD & INSTITUTIONAL ENVIRONMENTS

EU Regulation 852/2004 on the hygiene of foodstuffs sets registration and hygiene obligations for establishments producing food of animal origin, and emphasizes cooperation with control authorities. Continuous surface protection between cleaning cycles supports the hygiene standard those environments are already required to maintain, alongside food-service, healthcare, and laboratory settings governed by similar cleanliness expectations.

Engineered for Demanding Environments

The same adhesive film construction is specified on rail, transit, and aircraft interiors, environments held to some of the toughest cleaning and wear standards in any industry. Hospitals and clinics ask less of a film than a metro car does.

- Strong adhesion to glass and hard interior surfaces
- Easy to clean with standard sanitizing protocols
- Watertight, sealed surface resists moisture ingress
- Conformable to curved and detailed surfaces

INSTALLATION

Acrylic

Pressure-sensitive adhesive

Immediate

Adhesion on application

Permanent

Bond once installed

Pro

Installation recommended

Where It Protects

Hospitals & Clinics

Patient rooms, corridors, nursing stations, and partition glazing

Dental & Medical Offices

Treatment rooms and high-touch reception surfaces

Laboratories & Cleanrooms

Controlled environments requiring continuous surface hygiene

Food Service & Retail

Display cases, counters, and cold-storage glazing

MARKING PROTECTED SURFACES

A discreet on-site marker can be applied to doors, counters, or display glazing so staff, patients, and visitors can identify which surfaces carry continuous antimicrobial protection. Ask your FNX representative about signage options for your site.



Request a commercial quote or book a site consultation with FNX | EVO.



SILVER-ION TECHNOLOGY



ISO 22196 TESTED



NON-IRRITANT



5-YEAR PROTECTION



EASY MAINTENANCE



PROFESSIONAL INSTALL