

Nannix[©]

Active virus-killing bio-infection protection "water-based nontoxic paint"

Active virus-killing bio-infection protection "water-based wood paint"

"Nannix" is not just a coating, but an innovative health protection solution. It **adds JM-TTA antiviral nano-material**, has **active virus-killing function**, and can **effectively prevent bio-infection**, creating a safe and comfortable healthy space for you.



Problems with Traditional Paints

Lack of Anti-Viral Function

Traditional paints typically lack anti-viral properties, unable to effectively prevent virus transmission, posing potential health risks.

Limited Antibacterial Effects

Many traditional paints have limited antibacterial effects, unable to fully suppress bacterial growth, leading to environmental pollution and disease transmission.

Prone to Releasing Harmful Substances like Formaldehyde

Traditional paints during application and use may release harmful substances like formaldehyde, affecting indoor air quality and compromising human health.



Effective Prevention of Biological Infection

Virus Elimination

"Nanix" **JM-TTA** antiviral nanomaterials can effectively inhibit the activity of viruses and eliminate them, reducing the risk of infection.

Bacteria Elimination

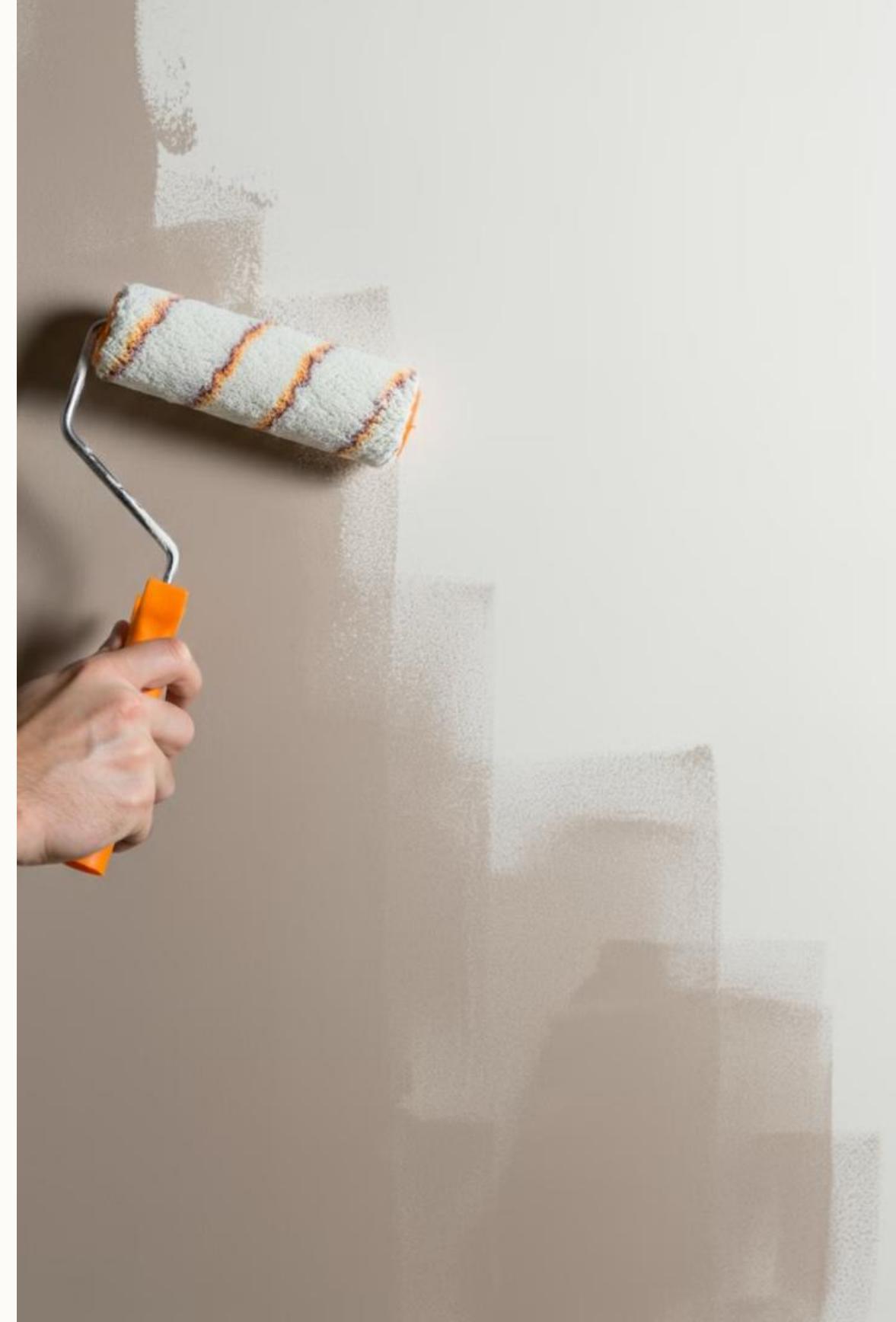
"Nanix" has a sterilizing function, which can effectively inhibit the growth of bacteria and reduce the possibility of bacterial infection.

Mold Elimination

"Nanix" can eliminate mold on the surface, keeping the space clean and preventing mold from growing and causing infection.

★Active Virus and Biological Infection Protection "Water-based Nontoxic paint"

★Active Virus and Biological Infection Protection "Water-based Wood paint"



Active Virus-Killing Biological Infection Protection "Water-Based Nontoxic paint"

Compared to Traditional Coatings (1)

Item	Active Virus-Killing Biological Infection Protection "Water-Based Nontoxic paint"	Traditional Coatings
Functional Positioning	Incorporates composite nano-material technology components that can actively kill viruses and inhibit bacterial growth	Only focuses on surface decoration, without active antimicrobial function
Antimicrobial Protection Effectiveness	Adopts advanced technology, continuously kills viruses, providing long-lasting protection	None
Protection Scope	Provides comprehensive protection, including viruses, bacteria, and multi-drug resistant pathogens (such as MRSA, SARS, H1N1, etc.)	None
Hygiene and Safety Requirements	Specially suitable for public spaces and high-risk environments, enhancing indoor hygiene and safety	Insufficient protection for high-hygiene facilities (such as hospitals, schools)
Market Health Trend	Aligns with the increased emphasis on health protection after the pandemic, with strong market competitiveness	Traditional product concept
Environmental Protection and Low Toxicity	Water-based formula, non-toxic and environmentally friendly	There are environmentally friendly products with low VOC
Technological Innovation	Combines the latest biotechnology to develop a new formula that can actively disinfect	None
Continuous Protection Capability	Can continuously kill viruses, providing long-lasting protection	None

Active Virus-Killing Biological Infection Protection "Water-Based Nontoxic paint"

Comparison Table (II) with Traditional Coatings

Item	Active Virus-Killing Biological Infection Protection "Water-Based Nontoxic paint"	Traditional Coatings
Applicability of Use	Specially designed for places with high biological infection protection requirements , such as medical, educational, and public transportation	Suitable for general environments, but lacks consideration for epidemic prevention needs
Safety Certification Standards	Passed ISO 21702 "Measurement of Antiviral Activity on Plastics and Other Non-Porous Surfaces"	None
Consumer Health Confidence	Enhances the sense of environmental health, giving users more confidence in occupying and using the space	None
Long-Term Cost-Effectiveness	Although the initial investment is higher, it reduces the secondary maintenance costs caused by microbial contamination	None
Anti-Microbial Biofilm Formation	The special formula can effectively inhibit the formation of biofilms, reducing the risk of cross-infection	The surface is prone to the formation of microbial biofilms, becoming a breeding ground for bacteria
Multi-Protective Effects	Combines physical and biological protection, achieving both aesthetic and health protection	None



Self-Disinfecting Antiviral Nano-Composite Material

"JM-TTA" New Nano-Composite Material

"**JM-TTA**" is a newly patented nano-material that combines self-disinfecting antiviral materials with water-based coatings, giving it broad antiviral and antibacterial capabilities.

Attacks Viral Nucleic Acids (RNA or DNA)

Cuts RNA or DNA to prevent virus replication, the damage to nucleic acids is usually irreversible, directly terminating the biological function of the virus, thereby eliminating **HIV, Covid-19, SARS, H1N1 and superbugs (MRSA)**.

Interferes with Virus Self-Repair Mechanism

The high destruction rate and broad attack range will exceed the virus's potential repair capability, rendering the virus inactive.

Semiconductor Physical Reaction Characteristics

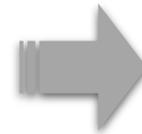
It has highly stable wide-bandgap semiconductor materials with excellent chemical stability and photostability, and will not experience functional degradation due to long action mechanisms and long duration, providing long-lasting effects.

Advantages with JM Materials

Antibacterial test JIS Z2801

- E. coli
- Staphylococcus aureus

Basic function



Antiviral test ISO 18184 & ISO 21702

- H1N1
- H3N2
- Feline embryovirus

Extra Value with TTA applied



TTA Test Reports

- COVID-19
- SARS
- H1N1
- MRSA
- M. tuberculosis
- P. Streptococcus

12 Antiviral Reports
22 Antibacterial Reports

TTA Safety Test reports

- Human fibroblast test report
- Skin Toxicity Test
- Oral toxicity testing

21 Safety test reports

TTA Patents

- USA: 1
- Germany: 1
- Japan: 1
- China: 5
- Taiwan: 11

19 Patents

FDA Certificate

- **FDA (US) Registration:
3010700940**

Extra for Textile

Textile Washing Test over 50 times

- **AATCC 135**
Dimensional Changes of
Fabrics after Home
Laundering



ISO21702
FUTURE PARTNERS

Active Virus-Killing Antimicrobial Waterborne Nontoxic paint



Indoor Space Protection

"Nanix" for **indoor walls**, provides a **24/7 biological protection barrier** for home, office, and other enclosed spaces



Hospital Space Protection

Specialized formula for medical environments, non-toxic and non-harmful, **effectively prevents hospital-acquired infections**, creating a safe and clean treatment environment for medical staff and patients



Actively Kills Viruses and Bacteria

Nano-protection technology forms a **continuous protective film indoors**, actively killing viruses and bacteria for over 24 hours



Multi-Space Application

Suitable for **homes, schools, hospitals**, and **various indoor environments**, providing long-lasting protection and creating a safe living space

This product has passed the **ISO21702** test, providing professional-grade space biological protection and creating a safer and healthier living environment