

SM Nano 1152 TiO₂ Surface Protection Technology

Advanced Photocatalytic Protection for Healthier Indoor Environments
Concerned about bacteria, yeast, and mould contamination in your facility?

Despite stringent hygiene protocols, surfaces in hospitals, clinics, offices, factories, and homes are continuously exposed to contamination from everyday activities and environmental factors.

SM Nano 1152 TiO₂ is an advanced photocatalytic coating solution engineered to provide continuous surface protection by inhibiting the growth of bacteria, yeast, and mould on treated surfaces.

A Smarter Approach to Surface Hygiene

Formulated using cutting-edge nano titanium dioxide (TiO₂) technology, SM Nano 1152 creates a durable, self-activating protective layer that helps maintain cleaner and healthier indoor environments.

When exposed to light, the coating generates active oxidising agents that help decompose contaminants, neutralise odours, and reduce microbial presence on treated surfaces.

Key Benefits

- Continuous antimicrobial surface protection
- Effective odour control and reduction
- Long-lasting performance of up to 1–2 years, depending on site conditions
- Transparent, odourless, and non-flammable formulation
- Suitable for a wide range of surfaces and environments
- Easy application by spray or brush
- Safe for use in residential, commercial, and healthcare settings
- Recommended Applications
 - Hospitals and healthcare facilities
 - Clinics and laboratories
 - Offices and commercial buildings
 - Manufacturing facilities
 - Residential properties
 - Bathrooms, kitchens, carpets, curtains, furniture, and vehicle interiors
 - Research and Testing



SM Nano 1152 TiO₂ has been evaluated in hospitals and by ALS Technichem for efficacy against bacteria, yeast, and mould. Independent testing demonstrates its suitability for contamination control programmes.

Testing conditions and results may vary depending on environmental factors and application protocols.

Frequently Asked Questions

Q: Is SM Nano 1152 TiO₂ safe for humans and pets?

Yes. The formulation is designed for safe use when applied according to recommended guidelines.

Q: Does the coating produce any odour?

No. SM Nano 1152 TiO₂ is odourless after application.

Q: How is the product applied?

The solution can be applied by spray or brush. For porous materials, gentle brushing is recommended after spraying to ensure even distribution.

Q: How long does the coating remain effective?

Under normal operating conditions, the coating can remain effective for approximately 1–2 years, depending on environmental exposure and surface usage.

Q: Does it help eliminate odours?

Yes. When activated by light, the photocatalytic process helps break down compounds responsible for the formation of bacteria, viruses, east and mold.

Q: Can it be used in cold environments?

Yes. The product remains effective in low-temperature environments, including cold storage applications.



X Ray room



CT room



Hospital Ward

Technical Specifications

Appearance: Transparent liquid

pH: 7.0–8.5

Odour: None

Flash Point: Non-flammable

Average Particle Size: <4 nm

Crystal Structure: Anatase

Primary Drying Time: 30 minutes

Final Setting Time: 2 weeks

Solubility: Water-soluble and oil-miscible

Specific Gravity: 1.0075–1.01

Contact Us

For product information, technical consultations, or application support, please contact:

Soma Medical Malaysia

www.somamedical.net