



Product description

SmartCoat is an invisible and odourless coating that is applied to surfaces, enhancing them with the capability to self-disinfect when activated by light.

SmartCoat is easily applied and reaches areas often overlooked in the conventional cleaning processes (eg. sidewalls, ceilings, furniture, materials and etc.), with super fine Electrostatic Spraying System

The SmartCoat Applied Surfaces will have a Self-Disinfecting lifespan of 12 months.

Product applications

The product is suitable for all surfaces in rooms where you want a cleaner and healthier environment. Besides common walls in everything from operational theatres, food production and office buildings, it has proven its effect on everything from floor to walls and all other furniture and equipment it has been applied within a building or premise.

SmartCoat nano solution must be applied by superfine electrostatic spraying system to achieve better bonding and long-lasting effects on all surfaces. No water droplets or bubbles shall be left on surfaces upon application as when crystallization forms, it will stain the surfaces. Therefore, only superfine mists which will dry within minutes shall be left on the surfaces upon application. Should there be water droplets or bubbles appeared after application, they must be immediately wiped off with microfibre cloth.

Product benefits

1. Elimination of bacteria, virus, and VOCs.
2. Resists fungus growth on surfaces and cleans the fungus in the air.
3. Self-disinfectant surfaces for at least 12 months – when applied using electrostatic spraying system.
4. Invisible and odourless.
5. Easier cleaning that lasts longer.
6. Self-binding capability without any binder.
7. Works under normal light.
8. Proven and certified by numerous international labs, universities and organizations worldwide.
9. Applied in a vast industry across all businesses around the world.

Application instructions

SmartCoat may only be applied by SmartCoat certified personal with Ultra Fine Electrostatic Spraying System

Product data, spray

Parameter	Method
Titanium Dioxide (TiO ₂)	Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) & Drying technique
Isopropyl Alcohol (C ₃ H ₈ O)	Gas Chromatography (GC)
Distilled Water	Calculation/ PH meter

STERILISING
NANO
TECHNOLOGY
FROM JAPAN

Revitalizing Life and
Protecting the Environment

Certificates, Approvals and Awards

FDA	Thailand - Reg. No.: 705/2560
Biocide	Europe - Reg. No.: 381-10-103-20-3102
Medical Device	Kuwait - Reg. No.: Ad.HM.13454-04/2020
Nanoverified	Nanomalaysia - Certificate No.: NV000086
Nanotrusted	Nanomalaysia - Certificate No.: NT2020002
NanoQ Label	Nanotech Thailand Certificate No.: PA 59 5902
BIS (British Invention Show 2012) - Natural Earth	Gold Medal
BIS (British Invention Show 2012) - Industrial	Gold Medal
Malaysia ITEX 2009	Gold Medal
KIWIE (Korean International Women Invention Exposition 2012)	Silver Medal

Providing long-lasting anti-
bacterial and disinfectant
products and services

Virucidal Efficacy

The table below summarises independent efficacy data of SmartCoat against important disease-causing pathogens.

Organism/Disease	Strain	Method	Country
Coronavirus	SARS-CoV-2 (Covid-19)	EN 14476	Malaysia
	Human Coronavirus - ATCC VR-740	EN 14476:2013	Malaysia
	Adenovirus Type-5 ATCC-VR-5	EN 14476:2013	Malaysia
	Murine Norovirus, Strain S-99 Berlin, FLI-RVB-0651	EN 14476:2013	Malaysia
	Poliovirus Type-1, Strain LSc2ab, NIBSC-01/528	EN 14476:2013	Malaysia
	Poliovirus-1		China
Mouse Coronavirus	JHM, ATCC VR-765	EN 16777:2018	Poland
	JHM, ATCC VR-765	EN 14476 Standard	Poland
Vaccinia Virus	Strain Ankara ATCC VR - 1508	EN 14476:2013	Malaysia
	Strain WR, ATCC VR-1354	EN 16777:2018	
Influenza	H1N1		China
	H1N1 Strain A/ Virginia/ATCC/ 2009 ATCC VR-1736	EN 16777:2018	Poland
HFMD	Coxsackievirus Type B6 - ATCC VR-155		US
	Enterovirus 71 (EV71)	EN 14476:2013	Singapore
	Coxsackie-A 16 (CA16)	EN 14476:2013	Singapore
Herpes Virus Type 1	McKrae	EN 16777:2018	Poland

Bactericidal Efficacy

Organism/Disease	Strain	Method	Country
Enterococcus hirae	ATCC 10541	EN 13727:2012	Malaysia
	ATCC 10541	EN 14561:2006	Malaysia
	ATCC 10541	EN 1276:2009	Malaysia
Escherichia Coli	NCTC 10538	EN 13727:2012	Malaysia
	ATCC 10536	EN 1276:2009	Malaysia
	BCRC 11634	CNS 15380 R3213	Taiwan
	ATCC 8739		Taiwan
	ATCC 8739	EN 1040:2005	Malaysia

	Evaluation of Bactericidal Activity of Chemical Disinfectant and Antiseptics	EN 1276:2009	Dubai
	ATCC 8739	EN 1040 Standard	Malaysia
	ASI.90	GB/T 30706-2014	China
	ATCC 10536	EN 1040:2005	Hong Kong
	ATCC 25922	Macro broth dilution assay	Thailand
	CCM 3988	ISO 27447:2009	Czech Republic
	ATCC 8739	JIS Z 2801:2000	Thailand
	ATCC 8739	JIS Z 2801:2000	Thailand
	Foil Panel	Colony Count Method	Malaysia
	Wood Panel	Disc Diffusion Test by Embedded Method	Malaysia
<i>Pseudomonas aeruginosa</i>	ATCC 15442	EN 13727:2012	Malaysia
	ATCC 15442	EN 14561:2006	Malaysia
	ATCC 15442	EN 1276:2009	Malaysia
	ATCC 9027		Taiwan
	ATCC 15442	AOAC 961.02:2012	Australia
	ATCC 15442	AOAC; 2012:961.02	Thailand
<i>Staphylococcus aureus</i>	ATCC 6538	EN 13727:2012	Malaysia
	ATCC 6538	EN 14561:2006	Malaysia
	ATCC 6538	EN 1276:2009	Malaysia
	BCRC 10451	CNS 15380 R3213	Taiwan
	ATCC 33591		Taiwan
	ATCC 6538	AOAC 961.02:2012	Australia
	ATCC 6538	EN 1040:2005	Malaysia
	ATCC 6538	EN 1040 Standard	Malaysia
	ASI.89	GB/T 30706-2014	China
	ATCC 6538	EN 1040:2005	Hong Kong
	ATCC 6538	AOAC 961.02	Thailand
	ATCC 6538	AOAC 955.17	Thailand
	ATCC 25923	Macro broth dilution assay	Thailand
	CCM 3953	ISO 27447:2009	Czech Republic
	ATCC 6538	JIS Z 2801:2000	Thailand
	ATCC 6538	AOAC; 2012:961.02	Thailand
	ATCC 6538	JIS Z 2801:2000	Thailand
<i>Salmonella aureus</i>	ATCC 14028		Taiwan
	ATCC 10708	AOAC 961.02:2012	Australia
	ATCC 14028	EN 1040:2005	Malaysia
<i>Salmonella Typhimurium</i>	ATCC 14028	EN 1040:2005	Hong Kong
	ATCC 13311	Macro broth dilution assay	Thailand
<i>Salmonella Choleraesuis</i>	ATCC 10708	AOAC 961.02	Thailand
	ATCC 10708	AOAC 955.17	Thailand
	ATCC 10708	AOAC; 2012:961.02	Thailand
<i>Candida Albicans</i>	ATCC 10231		Taiwan
<i>Kiebsiella monocytogenes</i>	ATCC 13932	EN 1040:2005	Malaysia

Kiebsiella Pneumoniae	ATCC 4352	EN 1040:2005	Hong Kong
Listeria monocytogenes	ATCC 13932	EN 1040:2005	Malaysia
	ATCC 15313	EN 1040:2005	Hong Kong
Trichophyton Mentagrophytes	ATCC 9533	AOAC 961.02	Thailand
	ATCC 9533	AOAC 955.17	Thailand
	ATCC 9533	AOAC; 2012:961.02	Thailand

Volatile Organic Compound Efficacy

Organism/Disease	Strain	Method	Country
Formaldehyde	Purification Performance & Persistence	JC/T 1074-2008	China
Scents Particles	Vehicle	SOP 401	Czech Republic
VOC	Vehicle	SOP 344	Czech Republic
VOC	Sampling Pump	Apply	Malaysia

Heavy Metal & Safety Efficacy

Organism/Disease	Strain	Method	Country
Eye Irritation	OCL-200-EIT	LWI-238-44	Malaysia
Skin Irritation		Technical Standard For disinfection (2002) Part II, 2.3.2	China
Acute Inhalation Toxicity		Technical Standard For disinfection (2002) Part II, 2.3.2	China
Acute Oral Toxicity		LWI-238-27	Malaysia
Cytotoxicity		ICCVAM	Malaysia
Lead (Pb)		LBTY - 07400	Thailand
Cadmium (Cd)		LBTY - 07400	Thailand
Mercury (Hg)		LBTY - 07400	Thailand
Hexavalent Chromium (CrVI)		LBTY - 07399	Thailand
Food Migration		EN 1186-3:2002	Singapore
		EN 1186-14:2002	Singapore
		EN 13130-1:2004	Singapore
Material Contact with Food Stuff		EN ISO 17294-1	Czech Republic
		EN ISO 17294-2	Czech Republic

