

USER'S VOICE

The odors characteristic to the linen rooms have been removed. With the anti-virus and antibacterial effect, we can always provide sheets to our patients in a clean environment. (Hospital staff)

We could get rid of the characteristic disturbing odor and kids come to our place without feeling unpleasant. (Dental assistant)

With its function of inactivating the airborne droplets of viruses on the walls and ceilings, by merely applying Optimus Interior Medical Paint on the walls and ceilings, it protects your loved ones against the risk of virus infection.

We have been hearing appreciative voices from users



and academia Sakai City

OPTIMUS INC. www.optimus.ip

Visit us at our showroom!

at our own factory

Manufacturer

Hoei Sangyo Co., Ltd. Postal code 599-8233 94 Onoshibacho, Naka-ku, Sakai City, Osaka TEL 072 235 1131 FAX 072 234 0835 ISO9001: certified in 2015 ISO14001: certified in 2015



Stellar education garden

Optimus Interior Medical Paint

Used material

Optimus Interior Primer

List of physical properties

Method of application

Process flow

Preparation

Paint

1st paint

2nd paint

ltem	Details	Item	Details
Raw material	Water base acrylic emulsion paint	Shockability resistance	No cracking, deformation, or peeling
Thickness of paint film	Apprx 0.2mm (standard level of painting: paint in 2 layers)		No cracking, deformation, peeling, expansion, softening, or melting, and no fogging or change in color compared to the parts not abrased
Luster	Matte	Alkali resistance	
Low-thermal stability	No detachment or aggregation of components		
	Based on JIS-A 6909	Fading or change	No cracking, deformation, or peeling recognized
Cracking or resistivity due to initial drying	No cracking	in color resistance	
		Mold proof	No growing of mold
Adhesion level	1.2N/mn	Electrification	Surface resistance value 108Ω
Detergence resistance	No exposure of basis due to peeling or abrasion	Heat conductivity	0.15 (w/m.k)

Developed in collaboration with industry, government

Key Products:

Registration number H11010 Under patent application

OPTIMUS INTERIOR MEDICAL PAINT



Developed and manufactured

High function, high quality, and easy to apply, with rich design and elegant finish

Diluent	Amount of application (kg/m)	Application interval (20°C)	ACovered area (mỉ/can)

For the surfaces of new concrete and mortar, dry well until the moisture content rate is 10% or lower and PH is 9.5 or lower. When repainting, remove fragile and old paint film, smudge, mold, and chalking, etc. with sander, leather skiving, or wire brush to make the surface clean. Spackle the joint part of the board and fill large unevenness and holes with emulsion putty.

Water 0-5% (dilution rate)	0.15(kg/㎡) Roller, brush	2 hours or longer	Apprx 100m ² /15kg
Vater 0-5% dilution rate)	0.15(kg/m ²) when applied using a roller. Brush and spray can also be used.	2 hours or longer	Apprx 50㎡/15kg

Patented: Patent number 6027394

Optimus Interior Paint and White Paint have been developed in collaboration with the Graduate School of Osaka Prefecture University with a support from Sakai City.

OPTIMUS INTERIOR MEDICAL PAINT

Registered by the Japan Paint Manufacturers Association Level of diffusion grade of formaldehyde F☆☆☆☆ Certified as non-combustible material NM-4760 Not included among the 13 items designated by the Ministry of Health, Labour and Welfare Can be applied on the wallpaper

Best for renovation and maintenance, as it can be applied without peeling off the wallpaper

Headquarters

541-0041 3F, 2-1-14 Kitahama Chuo-ku, Osaka City, Osaka, Japan TEL 06 6203 1121 FAX 06 6203 1141

Contact information

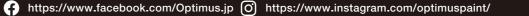
JANYNE PRESTON OPTIMUS INC. AFRICA TEL +1 855 888 6669 M +254 113 209 951 E janyne@optimus.jp <For Interior Work> Health-oriented Photocatalytic Water Base Paint

OPTIMUS INTERIOR MEDICAL PAINT



High-performance paint for interior work with a proven anti-virus effect by simply applying on the wall





Registered under Japan Paint Manufacturers Association, registration number H11010 / Level of diffusion grade of formaldehyde F🛪 🛪 🛪 Certified as non-combustible material NM-4760 / Not included among the 13 items designated by the Ministry of Health, Labour and Welfare 8 colors toning available (matte colors only)

For All People Desiring to Create Safe Space



The paint that has achieved an activity value of 4.1 in an anti-virus test

OPTIMUS INTERIOR MEDICAL PAINT

"Optimus Interior Medical Paint" is a high-performance water base paint with anti-virus, antibacterial, deodorant, mold-proof, thermal features suitable for indoor use. With its inhibiting effect on the "envelope virus", which has the same basic virus structure as those of flu and Covid-19, by applying this new paint on walls and ceilings of public facilities, commercial or office spaces, or entertainment spaces where people gather, not to mention medical or care facilities, it will serve to prevent infectious diseases of people all over the world.

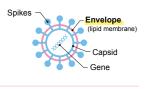
Strengths of OPTIMUS INTERIOR MEDICAL PAINT with proven anti-virus feature The 3 components co-act to thoroughly inhibit the growing

1. Photocatalystest By absorbing the ultraviolet energy from the sun. it emits oxidized radical (active oxygen) and inhibits the growing of viruses and bacteria. X As the photocatalyst is being metal-doped, it emits radical also with visible light (such as fluorescent). 2. Metallic ion i) The metallic ion is taken into cells and delivers antibacterial performance. ii) It bonds with protein, etc. to block their functions. iii) By blocking their functions, it inhibits the growing of viruses and bacteria.

3. Special inorganic Hydrogen peroxide will be generated from the surface of the special inorganic substance and inhibits the growing of viruses and bacteria. substance

Works on the envelope virus!





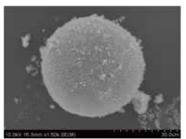
Covid-19 virus, cold sore, flu virus. etc.

The 3 components break into the membrane of the protein of envelope virus and inactivate the RNA (nucleic acid) inside the virus.

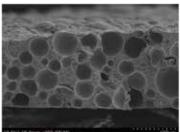
Viruses are generally tinier than bacteria, and there are also 2 types of viruses—those with a protein membrane called envelope and those without. OPTIMUS INTERIOR MEDICAL PAINT has been proved to have inhibiting effect on the viruses with an envelope (with a decrease rate of 99.9999%).

"Uniqueness and Strength of OPTIMUS"

"Super capsule" covered by photocatalyst



Optimus paint in section



technology, contained in Optimus Interior Medical Paint. A nano-sized photocatalyst is supported by a 20-micron capsule.

The "super capsule" with patent

of viruses and bacteria

hotocatalyst

Specia

inorganic

substance

Metallic ion

With the photocatalyst supported in the "super capsule" being oriented in a dispersed manner on the painted surface, it is structured so that the triple power along with metallic ion and special inorganic substance will realize magnificent effect.

Proven anti-virus effect based on ISO21702 anti-virus test pursuant to the international standards

Anti-virus test Viruses and flu viruses with envelope that infect animals Purification of test viruses Toxicity test of sample cells V Inoculate test virus liquid into test sample ▼ Attach firmly with film ▼ Static cultivation for 24 hours in accordance with the specification at 25°C ▼ Collect test virus liquid 試験結果報告書 ▼ Prepare 10-time 12254,521 0 serial dilution To: Hoei Sangyo Co., Ltd. Address: Postal code 599-82 ▼ Add to host cell

- ▼ Cultivate
- Measure virus infection value by plaque techniqu
- ▼ Calculate anti-virus activity value

ALCONTRACTOR AND A Contra alatta anno 161 (1.41) paratration.

There are more than just anti-virus effect! Clean air will last without any maintenance

Air cleaning and anti-bacteria effect | Deodorant effect

Inside the medical and welfare facilities, there are odors characteristic By adding antibacterial agent feature to the inherent antibacterial function of photocatalyst, it will improve the function of destroying the to hospitals as well as unpleasant odors of excrement of patients bacteria coliform. In a test conducted by an external organization to taking medicines. With the photocatalytic effect, Optimus adsorbs check the effect of antibacterial paint, an antibacterial effect has been and decomposes substances that cause bad odors, such as confirmed against MRSA, which causes O-157, an intestinal tract ammonia (odor from bathrooms), nonenal (aging body odor), and acetic hemorrhagic bacteria coliform, and healthcare-acquired infection acid (odors of sweat and tobacco). **Mold-proof effect Thermal effect** As there are weakened patients, adjustment of temperature is also Mold can cause allergies as well as pneumonia and other diseases. important in medical and welfare facilities to maintain body conditions. Photocatalyst destroys not only bacteria but also mold. It also

prevents growing of mold in a humid environment. It prevents mold bacteria floating in the air, which cause asthma and pneumonia, from growing.



Related Products

Virus-free Series For the anti-virus measures of doorknobs, rails, and tables!

Bio Clear Coat Anti-virus clear paint



Micro-capsule of Optimus prevents heat movement and captures the heat inside the room. It keeps comfortable temperature and saves approximately 10-15% electricity, thereby contributing to the reduction of CO2.

Please make sure to check the specification for the installment for the detailed method of application. Durability: 1-5 years (depending on the frequency of use and where you apply)

By applying this on ceiling, walls, doorknobs, and rails, spaces where people spend time will be cleaner

be greater if dried

completely.

X Cannot be applied on:

Fluorine, polyethylene, silicon, etc.

