

Adjustable according to the Base Material, Purpose, and Work Conditions
Photocatalyst Coating Series

Photocatalyst **Standard Type**

Harmless Water-Soluble Coating

ST-P	Undercoating for Exterior Walls	<ul style="list-style-type: none"> When the photocatalyst is to be applied to an organic base material, this undercoating is used as a protective layer for preventing the photocatalysis process from occurring directly on the base material. This is mainly used for organic base materials such as coated surfaces and plasterwork.
ST	Topcoat for Exterior Walls	<ul style="list-style-type: none"> This can be used as a topcoat for various exterior walls such as coated surfaces and plasterwork. The undercoating is not needed for inorganic materials such as tiles.
MOLD	Topcoat for Exposed Concrete	<ul style="list-style-type: none"> This has been enhanced to suppress mold and algae which easily grow on concrete.
VLGAG	For Interiors	<ul style="list-style-type: none"> This strongly reacts to room lighting (visible light) resulting effective in sterilization, deodorization, and air purification. Silver ion has been added so that the deodorization function can be maintained even during the night. In addition to interiors, this can be used as a topcoat for exterior walls that receive thin light.

Photocatalyst **Clear Type**

Highly Transparent Alcohol Dispersion Coating

Clear G	Clear Type for Glass	<ul style="list-style-type: none"> Alcohol dispersion increases the volatility so that a clear coating can be created. High hydrophilic property prevents dirt.
Clear P	Undercoating for Exterior Walls	<ul style="list-style-type: none"> A highly transparent coating can be created so that the design of the based material is not affected. Suitable for dark and glossy base materials. Available for acrylics, tent materials, and organic base materials with high water repellency.
Clear T	Topcoat for Exterior Walls	<ul style="list-style-type: none"> High transparency can be achieved so that the design of the based material is not affected Suitable for dark and glossy base materials.

* The effectiveness of our company's work is guaranteed for at least five years.
(Note: Depending on the conditions at the actual site.)
* For liquid solution sales, the purchaser takes work responsibility.
(Construction point documents are available at sale separately.)
* Work training can be provided upon request. (Dispatch work instruction)
* Please contact us if more details are needed for the liquid solution.

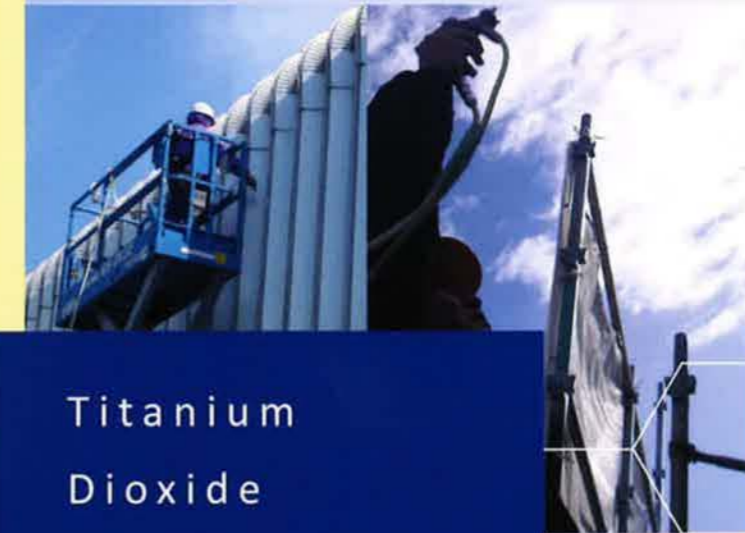
Widegerm is HK/Macao service partner. Below is our contact for your reference. For more questions, pls feel free to contact us.



Widegerm Lighting Ltd.

Hong Kong Office: Flat A, 3/F., Tak Wing Ind. Building, 3 Tsun Wen Rd., Tuen Mun, N.T., Hong Kong
China Factory: Building 1, GuanShu Science and Technology Park, Wang Sha Road, Hong Mei Town, DongGuan City, China

Water-Soluble Titanium Dioxide
Photocatalyst Coating



Titanium
Dioxide
Photocatalyst
Technology



Facebook: www.facebook.com/Widegerm
Web: www.widegerm.com.hk
E-mail: info@widegerm.com.hk
Tel: +852-23679268 WhatsApp: +852-98370831

Photocatalyst Our partner product continuously dissolves various pollutants, odors, and harmful materials, makes them harmless and creates a more comfortable environment.

We are threatened by various invisible harmful substances on a daily basis. We surrounded by various risks including air pollution from exhaust gas, sick house syndrome caused by building materials, fungi and bacteria that can be harmful to humans, as well as pathogens and viruses that are spread through the air. In addition, dirt, mold, and rain stains on building exteriors, yellowish color of interior wall surfaces, and various odors from tobacco, food garbage, animals, mold, bathrooms, and new building materials. Now PALCOCOAT makes it possible to achieve everyone's desire to protect their health and maintain the beauty and cleanness of buildings and living environments.



What is a Photocatalyst?

Photocatalyst

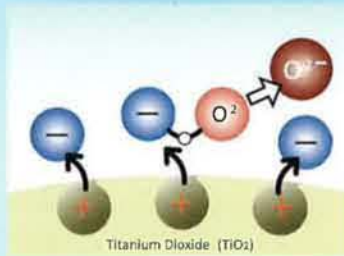
Because of its characteristics of titanium oxide, strong oxidative decomposition occurs at the surface of the place where light energy of being like sunlight or room light hits and then various materials approaching to are broken down. Meanwhile the titanium dioxide itself does not change, so this reaction repeats every time light is received.

What is Titanium Dioxide?

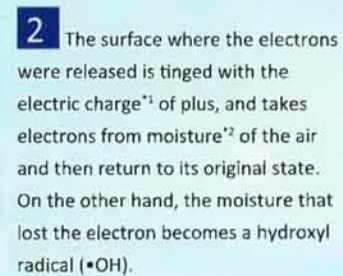
Titanium Dioxide

Titanium dioxide is a white powder (superfine particles) that has long been used as a white pigment. It is used for a wide variety of usages such as in coatings, dental material, toothpaste, and cosmetics. It is also used as a food additive for coloring in white chocolate, sweets, and chewing gums because it is tasteless, odorless, and is harmless to humans.

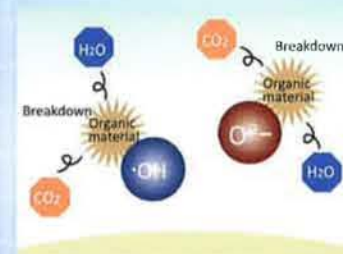
How Photocatalysis Works



1 When Titanium dioxide receives energy from light, electrons (-) are released from the surface. The electrons released are combined with oxygen in the air then creates "O2-" (Superoxide anion).



2 The surface where the electrons were released is tinged with the electric charge¹ of plus, and takes electrons from moisture² of the air and then return to its original state. On the other hand, the moisture that lost the electron becomes a hydroxyl radical (•OH).



3 The "O2-" and "•OH" that resulted in a process of transfer of this electron can produce strong oxidative decomposition, which decompose organic compounds such as oil causing dirt and adhesion, bacteria, harmful chemical gas, viruses, and molds even into simple harmless substances that then are released into air.

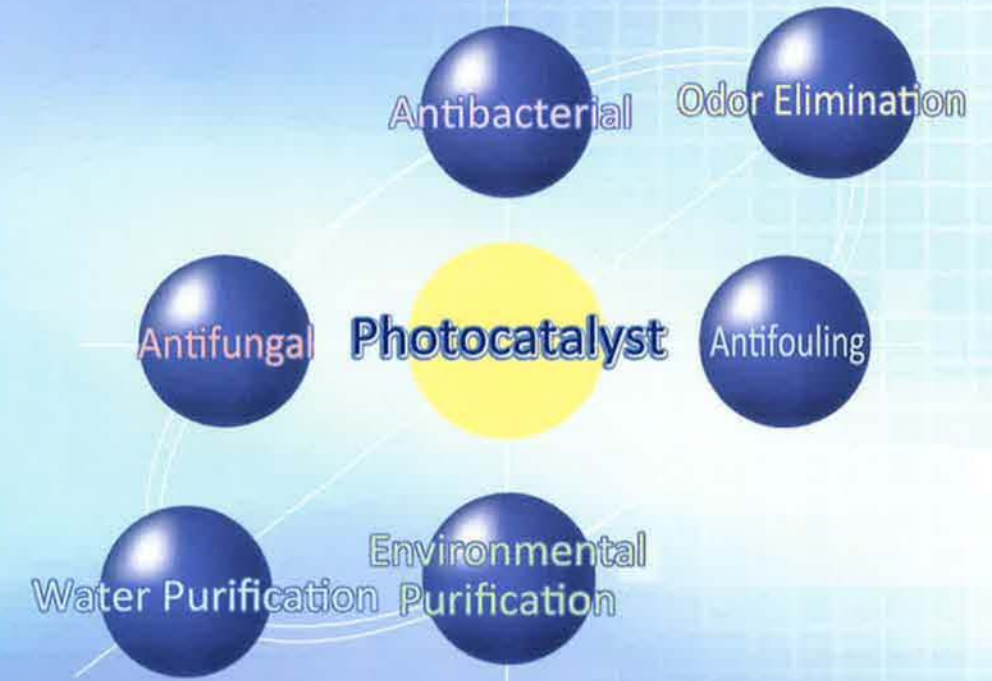
1. This is referred to as an "Electron hole", and this is called as "Hole of plus (Electron hole)" or just a hole.
2. Before reacting with H2O, there are cases where electrons are taken and broken down directly from organic compounds.

P Photocatalyst Purification

A Antibacterial

L Life

C Cleanliness

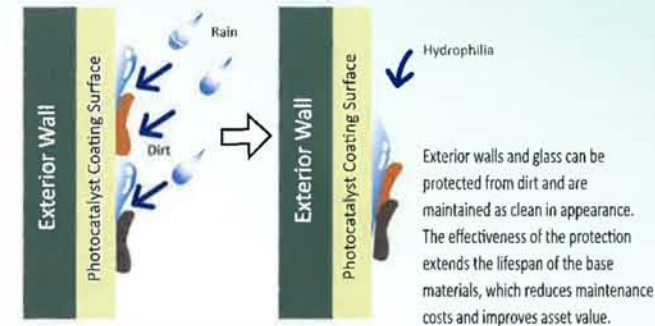


Our partner product is a coating system that uses "Photocatalysis" to purify the environment so that living environments can be kept clean thanks to its antibacterial effect.

The Photocatalyst Coating Used in Various Situations

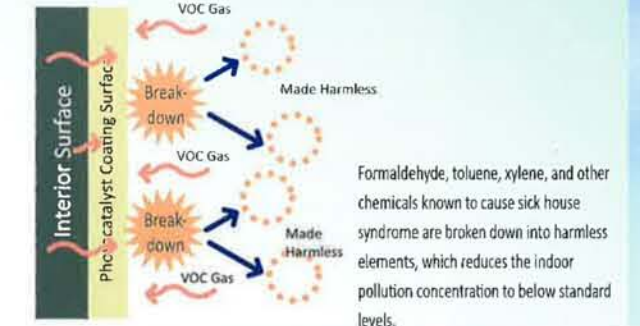
Function of Asset Maintenance (Self-Cleaning Function)

Rain Stains, Dirt, and Mold are Removed from Building Exteriors



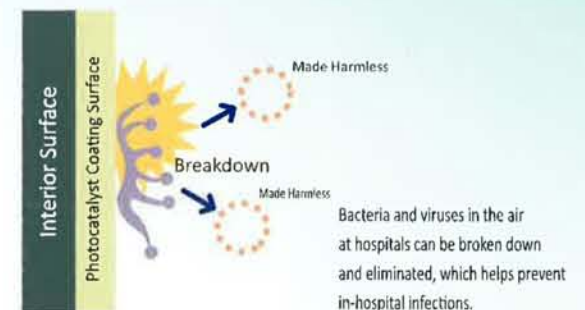
Function of Sick House Syndrome Countermeasure

Hazardous Chemicals from Construction Materials are Broken Down



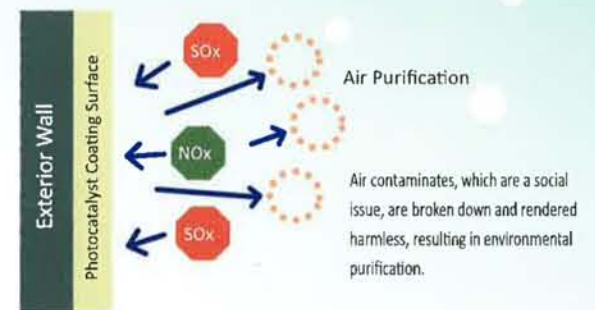
Function of Suppression of In-Hospital Infections

Function for Breaking Down Bacteria and Viruses in the Air



Function of Environmental Purification Function

Harmful Contaminates in the Air are Broken Down



Benefits for Exterior Walls

1. Maintaining Building Appearance

The cleanness of exterior walls is maintained by preventing dirt from attaching. After the coating is applied, dirt does not appear even after five years.



Process of Breakdown / Dirt Elimination [Organic Material Decomposition Test (Red Ink Fading Test)]

The photos on the right show a time lapse for a white tile with the coating on the left half that is applied with a commercially available red ink. (Conditions: 20W UV lamp 1m above tile)



2. Mold Suppression

The mold prevention function is effective on areas that receive limited UV light such as north-facing walls and bathrooms.

An application test was conducted on a wall where mold already existed. After eight weeks, a good result was found as shown in the photos on the right.



Benefits for Interiors

A new and improved version of the photoreactive type, which was already effective indoors. The composition ratio of the photoreactive sol was increased and silver ion was also added. The new VLAG for indoor use is effective even in rooms with thin light, and the silver ions maintain the sterilization and deodorization properties in dark areas.

1. Deodorization

Various odors that are occurred during daily activities can become unpleasant when absorbed by walls, curtains and furniture. The photocatalyst repeatedly breaks down and eliminates such odors so that odor accumulation is suppressed, resulting in a more comfortable environment.

Example) Pet smells, cooking smells in kitchens, new car smell, body odor, etc.

2. Sterilization

Bacteria and viruses such as coliform bacteria (O-157), staph aureus, bird flu, and Norovirus, which occur food poisoning, can be eliminated, and even dead bacteria (verotoxins) can be broken down and rendered harmless. Viruses can be reduced by 99.9%! [Table 2]

3. Air Purification

Toxic volatile gases (VOCs) that can cause sick house syndrome are broken down and rendered harmless. In addition, NOx and SOx that cause air pollution can also be made harmless.

Antibacterial Test <Coliform> [Table 1] Test No.: 017868-2

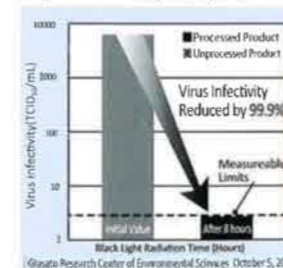
	Number of Inoculations	After 18 Hours	Activity Value of Bacteriostasis
Nylon Cloth	logA 4.2	logB 5.6	
Cotton Cloth	logA 4.2	logB 7.4	
LOHAS Towel	logA 4.2	logC 1.3	4.3

Sept. 9, 2005 Inspection Institute: Boken Quality Evaluation Institute Kinki Office

Antibacterial test using LOHAS Style by PALCCOAT towel

Test Items: Antibacterial test [Table 1]
Test Method: According to JIS L 1902 Quantitative test bacteria emulsion absorption method. However, the washing method is according to the JIS L 0217103 test method. (JAFET standard detergent was used.)
Measurement method for viable bacteria count: Pour plate culture method (Note) Fluorescent light radiated for 18 hours during cultivation (about 5,500 lux)

Type A Influenza Virus (H1N1) Experimental Value [Table 2]



Application Method

Application is made to indoor walls and ceilings and to exterior wall by spraying. Titanium dioxide reacts to light, resulting in various effects. Application can also be done using a roller or brush according to the situation.



Harmless Water-Soluble Coating Agent

The photocatalyst coating agent PALCCOAT Standard Type contains only water-soluble titanium dioxide and pure water and is an environmentally friendly coating agent which is harmless to humans and animals, is nonhazardous, and is nonflammable.

It has been proven to be harmless to humans and animals by a toxicity test.

There was no change in the weight of male mice according to the "Acute Toxicity Test Using Male Mice" safety test conducted by the Japan Food Research Laboratory.

Changes in Weight

Administered Group	Before Exposure	After Exposure (Days)	
		7	14
Study Group	27.0±0.8 (5)	29.7±0.7 (5)	31.4±1.7 (5)
Control Group	26.9±0.8 (5)	29.7±1.3 (5)	1.9±1.8 (5)

Weight is expressed using the average ± standard deviation (Unit: g), and the number in parentheses indicates the number of animals.

No abnormalities were found in the "Mutation Test" or "Primary Skin Irritation Test Conducted on Rabbits."

Long-Lasting Coating

The formed coating cannot be peeled off by rain or wind once it has dried for two hours. After this, the coating continues to harden, and after a few weeks the hardness becomes stable at a pencil hardness of 2H or harder*.

This coating is strong and can withstand harsh natural conditions, and can maintain its effectiveness for a long time.

*Differs according to the temperature and humidity.

JIS D 0205:1987 Test Method of Weatherability for Automotive Parts

According to WAN-IS(H)

Black Panel Temperature: 63 Degrees

Test Time: 3,000 hours

No abnormalities were found from testing conducted using the above conditions.

Effective Even with Interior Lights

As with the red ink tile test stated on the left page, it was confirmed that red ink can be broken down according to a test using visible light.

Pigment degradation with a short wavelength cutoff filter



Inspection Institute: SAGA Ceramics Research Laboratory

Certification System by the Photocatalysis Industry Association of Japan

The Photocatalysis Industry Association of Japan established their criteria for evaluating photocatalyst materials and their applied products in order to improve product quality and performance. They also operate the certification system for forming a healthy photocatalyst market.

① Product Name	Photocatalyst Coating		
② Photocatalyst Type	Titanium Dioxide		
③ Photocatalyst Processed Portion	Organic coated surfaces, inorganic coated surfaces, tiles surfaces, and glass surfaces		
④ Effect of the Photocatalyst	Measurement method is according to JISR1703-1 and JISR1703-2		
Self-Cleaning Effect	Contact Angle*1	Organic Coating: Less than 11.7° Tile: Less than 5° Inorganic Coating: Less than 5° Glass: Less than 5°	This is the index for dirt breakdown performance.
	Decomposition Activity Index*1	Organic Coating: 20.0 Tile: 12.6 Inorganic Coating: 21.3 Glass: 12.6	This is the index for dirt breakdown performance.
⑤ Location Used	Outdoors		
⑥ Safety	Acute oral toxicity, primary skin irritation, and mutagenicity have been confirmed to meet the safety standards set by the Photocatalysis Industry Association of Japan.		
⑦ Cautions for Usage	If too much dirt is attached to a surface, sufficient self-cleaning effect cannot be achieved, so regular cleaning is recommended.		

*1 According to the certification criteria set by the Photocatalysis Industry Association of Japan, the contact angle should be 30° or less, with a smaller contact angle indicating better performance.

Certification requires a decomposition activity index of 5 or higher, with a higher index indicating better performance.

* Expressed according to the guidelines set by the Photocatalysis Industry Association of Japan.

Lecture for Photocatalyst Coating Technology Using Water-Soluble Titanium Dioxide



Attendants listened carefully to Dr. Ichinose in a study group

A patent for "Anatase Dispersion and its Manufacturing Method" invented by Dr. Ichinose was granted in January of 1999. Further study of photocatalysis technology has progressed, and newly developed technologies have allowed for a wider range of applications.

SAGA Ceramics Research Laboratory
Fellow Researchers - Doctor of Engineering, Hiromichi Ichinose
Developer of the water-soluble titanium dioxide coating agent
For promoting science and technology in 2001, he received an award from the Minister of Education, Culture, Sports, Science and Technology

Our partner product has a proven track record, and can be used to fill various needs.

Benefits of Photocatalyst Coatings

Maintains Appearance / Improves Asset Value / Purifies the Environment / Eliminates Odors / Sterilizes / Prevents Yellowish / Countermeasure for Sick House Syndrome

JR Nishi-Funabashi Station Building



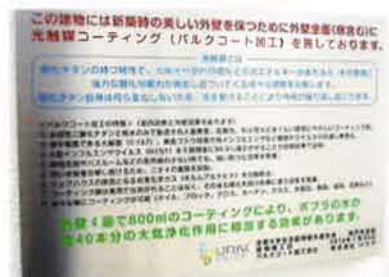
Construction of an escalator for the shopping area at Nishi-Funabashi Station

Coating on the station's exterior and glass

Antifouling coating on the skylight glass of the Arcade

Even the sign is coated

Coating on the Nationwide University Cooperation Building



A sign was posted related to the coating to appeal environmental protection measures

Washing and Coating Exterior Walls of a Food Processing Plant

Maintaining appearance improves image



Coating in a scissor lift

Coating on the exterior walls breaks down pollutants in the air, which purifies the environment

Cleaning

Our product has replied to various needs of customers with sufficient track record and confidence from them.

JR Matsumoto Station



New construction of the Matsumoto Station West Entrance on the JR Shinonoi Line

Exterior Wall of a New Restaurant



Prevents rain stains and color fading

Company Building Exteriors



Apartment Exterior Walls



Appearance can be maintained, which improves the occupancy rate

Exterior Walls of an Individual Residence



Appearance can be maintained for years by applying a coating to home exteriors

Signboard



Southern European Style Roofing Tiles



Originality can be maintained

School Facilities



Countermeasure for Sick School Syndrome at an elementary school in Tokyo

Retirement Homes



Sterilization and odor elimination

New Apartments



Countermeasure for Sick House Syndrome before movement

Construction Equipment Leasing Company



Application to steel sheets

Hotel Rooms



Cleanliness from the sterilization and deodorization properties can be appealed

Hotel Kitchens



Sterilization to prevent food poisoning

Smoking Areas



Eliminates odor and prevents Yellowish

Food Processing Plants



Air purification at a sake brewery

Kindergartens and Nursery Schools



Coating the insides of daycare centers provides a sense of safety

Taxi Interiors



Sterilization and deodorization inside of cars provides a comfortable space for customers

Bus Interiors



Elimination of new car smell (VOC gas) in a kindergarten bus. Air purification inside of buses and prevention of motion sickness

Coatings on Clothes



Used by many dry cleaners

Photocatalyst Coated Mask



Flu virus can be broken down and eliminated



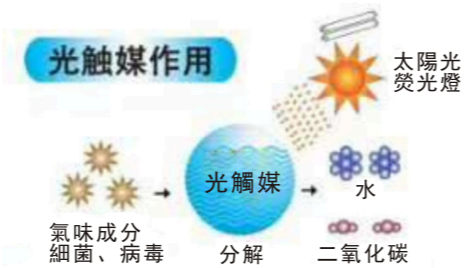
光觸媒抗菌除臭噴霧劑

最新可視光型 LED照明也能應對

- 有機 •無害 •除臭 •抗菌
- 有效期可超過一年

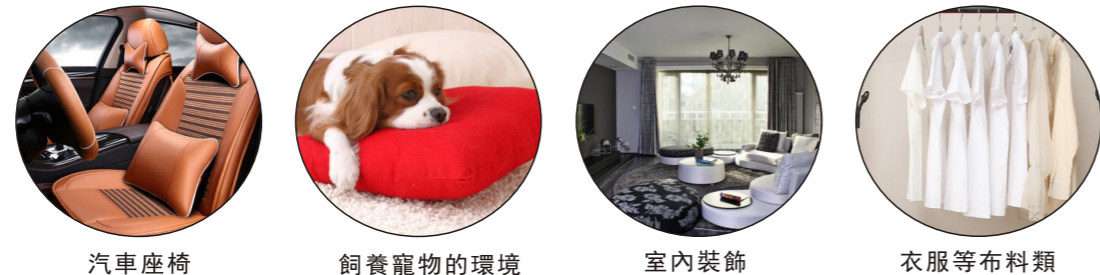
光觸媒的工作原理

納米二氧化鈦(光觸媒)見光會產生正、負離子。電子與空氣當中的水分子結合產生氫氧自由基，氫氧自由基具有強大的氧化分解能力，幾乎能將所有的有機污染物和部分無機污染物分解成無害的二氧化碳、水和其他物質，且能破壞細菌的細胞膜造成細胞質的流失並固化病毒的蛋白質。



<p>DEODORIZING / STERILIZING SOFAS Spray directly. To avoid stains, spray evenly. Do not focus the spray on one area.</p>	<p>SANITIZING RECEIVERS Wipe with a towel modestly moistened with the spray. Using a heavily wet towel can leave stains when left on.</p>	<p>STERILIZING FACE MASKS Spray directly. To avoid stains, spray evenly. Do not focus the spray on one area.</p>	<p>SANITIZING TOYS Wipe with a towel modestly moistened with the spray. Using a heavily wet towel can leave stains when left on.</p>	<p>DEODORIZING / STERILIZING SHOES & BOOTS Spray directly. To avoid stains, spray evenly. Do not focus the spray on one area. For better effect, apply when dry combined with sunlight.</p>	<p>DEODORIZING / STERILIZING TOILET SEATS Wipe with a towel modestly moistened with the spray. Using a heavily wet towel can leave stains when left on.</p>
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Once coated with photocatalyst, the effect is repeated by receiving sunlight and / or interior lights.



光觸媒噴霧使用說明



噴霧劑的霧狀很難看清所以用虛線代替



請均勻噴塗到對象物所有地方

1.請搖勻容器後保持30CM左右距離噴塗

注意不要在空氣中亂噴，而是要噴射到壁紙、窗簾、沙發等地方，讓光觸媒充分附著其表面。

2.1m²面積大約按壓40次左右,保證均勻噴塗一瓶大約能噴20-30m²

光觸媒最好的使用方法就是將1瓶產品大面積均勻噴塗。

3.乾透後就加工完成啦!

噴塗或擦拭被處理物品後,盡量開窗通風見光3-5天效果更佳哦!效果可持續大約一年

安全、安心、長效、省人工

- * 如同植物的光合作用，利用太陽光熒光燈的能量(紫外線)，有效分解氣味中的成分以及有害氣體(VOC)、細菌、病毒，從源頭上將其去除。
- * 本產品是一款無污染，可供消費者安心使用。
- * 比本地技術更可靠更有效!

注意事項

1. 對未乾燥的油漆塗料等不能噴塗。
2. 本產品為水性，噴塗在污染物表面會形成霧珠，應通風乾燥，如接觸皮膚，請用清水沖洗，本品不可食用。
3. 均勻噴塗可避免在家具上形成痕跡或白色斑點，如有白色斑點請立即用白色抹布擦拭。

代理商:



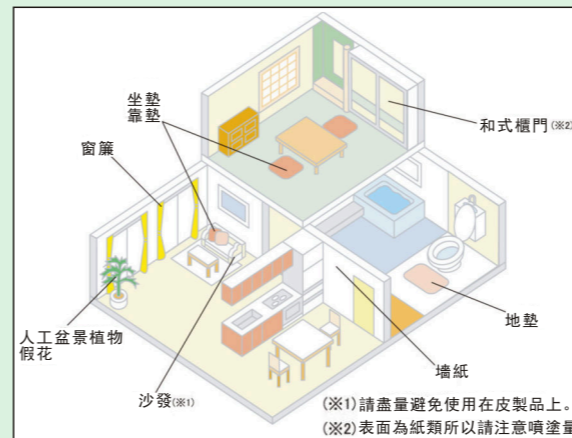
•有機 •無害 •除臭 •抗菌

“VLAG” For Interiors

(visible light responsive powerful antibacterial type)

- “VLAG” strongly reacts to room lighting (visible light) resulting in effective sterilization, deodorization and air purification
- The formula contains silver ion so that the deodorization function can be maintained even during the night.
- In addition to interiors use, “VLAG” can be used as a topcoat for exterior walls that is not regularly exposed to light.

產品生產商為日本 PIAJ 會員及可提供相關認證, 專業測試報告



Photocatalyst dissolves various pollutants, odors and harmful materials creating a more comfortable and safer environment.



光觸媒噴塗工程業務範圍

- 1) 提供現場長效消毒服務，並提供已消毒場地綠色標籤以之識別
- 2) 提供專業版1公升光觸媒液體材料，並且提供噴霧設備租賃及施工訓練
- 3) 與產品生產商及服務商合作，提供增值服務

應用範圍: 室內及室外,醫院診所,教育機構,老人院,幼兒園,汽車,家居,辦公室,酒店,餐廳,食物加工廚房,運輸業,公共場所,零售業及商場會所

School Facilities



Hotel Rooms



Kindergartens and Nursery Schools



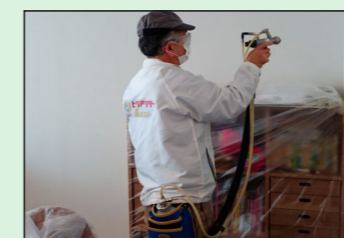
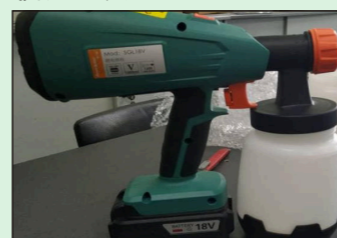
Taxi Interiors



Bus Interiors



使用工具



超明提供長效消毒服務，令大家更安心，更安全!

CMC serves you everyday with brightness & cleanness

代理商:

本公司已經使用日本進口長效納米光觸媒消毒



CMC serves you
everyday with
brightness & cleanness

超明提供長效消毒服務，
令大家更安心，更安全！

Photocatalyst dissolves
various pollutants, odors,
and harmful materials,
creates a more comfortable
environment.

•有機 •無害 •除臭 •抗菌



www.facebook.com/widegerm
www.cmclight.com
info@cmclight.com

噴塗日期：

年 月 日

商戶已使用消毒處理證明標籤

四喜珠寶光觸媒案例
 See Hay Jewellery photocatalyst case



See Hay is a time-honored Jewellery shop who selling Jewellery for wedding and birthday in Sheung Shui and Yuen Long area since the 1960s. The shop are struggling to provide for their customers and staff member a safe shopping and working environment during the pandemic. Once display window and seats coated with photocatalyst, the effect is repeated by receiving interior lights.



徐記廚房點心專賣店光觸媒案例
 Tsui Kee Dim Sum Kitchen photocatalyst case

Tsui Kee Kitchen wants to build customer's confidence after the social distancing measures loosened. In these days, consumers not only concern about the food quality, they also pay attention to the cleanliness of the dining area and the restroom, especially seats and underneath of tables where cannot be cleaned every hour.



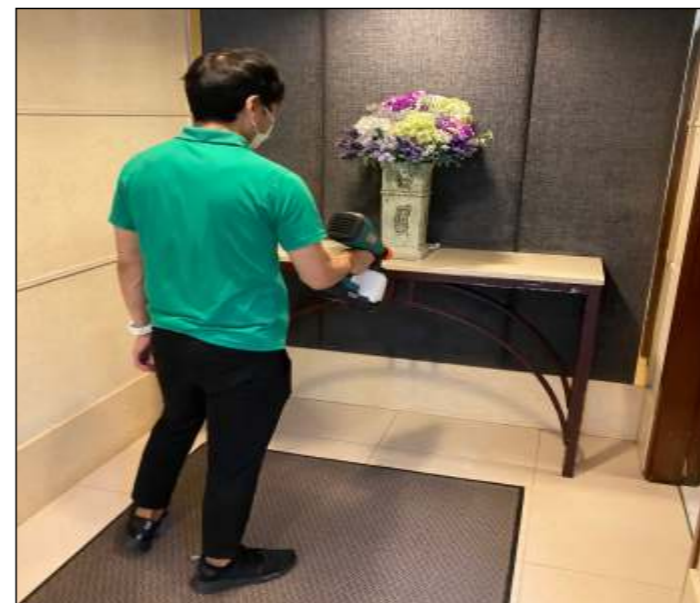
青榕台健身中心光觸媒案例
 TYT Gym Center photocatalyst case

TY Terrace appointed us to provide Photocatalyst Coating service at their Fitness Room. Residents are particularly concerned about the health status of public areas during the coronavirus outbreak. However, wearing mask is difficult during workout. Our Photocatalyst Coating can kill more than 99.9% of viruses, bacteria, formaldehyde and other volatile organic substances with a long-term effect.



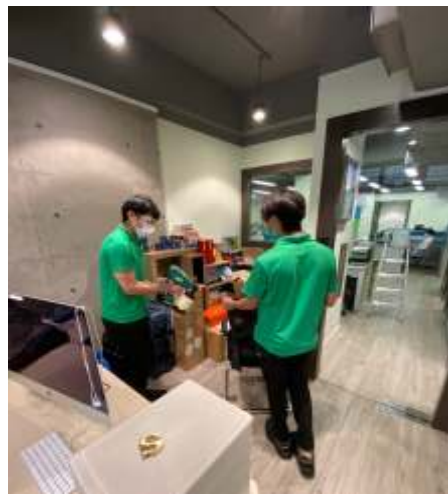
屯門私人屋苑會所光觸媒案例
 TYT Residential Club House photocatalyst case

Elder are reading and Kids like to stay at play room for a whole day. They all are at higher risk of infection. Other than washing hand and using hand sanitizers, Photocatalyst Coating can kill more than 99.9% of viruses, bacteria, formaldehyde and other volatile organic substances with a long-term effect and has been proven that it is harmless to humans and animals.



昇益貿易公司寫字樓光觸媒案例
Hugin Company Office With Photocatalyst

CMC provides Hugin Company both their warehouse and office with long lasting Silver + Ion photocatalyst spraying service with excellent anti-bacteria and deodorization after led lighting solution.
To compare with common local made products from the market, our imported photocatalyst material from japan expert could last much longer up to a year and with reliable function.
Our material is certified by most recognized organization in the industry PIAJ.



Companies



Exterior wall
Location : Koto district, Tokyo.



Exterior wall
Location : Aomori prefecture.



Exterior wall
Location : Chiba prefecture.



Exterior wall panels, Glass windows.
Location : Nagano prefecture.

Public Facility



School Kitchen Room
Location : Sumida district, Tokyo.



Exterior wood panels, Glass windows.
Location : Bunkyo district, Tokyo.



Whole school exterior.
Location : Mitaka city, Tokyo.



Exterior concrete, and entrance glass windows.
Location : Numazu city, Shizuoka prefecture.

General Residence



Exterior and interior.
Location : Kawasaki city, Kanagawa prefecture.



Exterior and interior.
Location : Kanagawa prefecture.



Exterior wall tiles.
Location : Kanagawa prefecture.



Exterior of new house.

Others



Location : Kawasaki city, Kanagawa prefecture.



Photocatalysis coated artificial flower

Project Reference

See Hay Jewellery 四喜珠寶

See Hay is a time-honored Jewellery shop who selling Jewellery for wedding and birthday in Sheung Shui and Yuen Long area since the 1960s. The shop are struggling to provide for their customers and staff member a safe shopping and working environment during the pandemic. Once display window and seats coated with photocatalyst, the effect is repeated by receiving interior lights.

Referee: Mr. Lai Tel No.: 2670 0566

Website: www.seehayjewel.com.hk

Tsui Kee Kitchen 徐記廚房(點心)

Tsui Kee Kitchen wants to build customer's confidence after the social distancing measures loosened. In these days, consumers not only concern about the food quality, they also pay attention to the cleanliness of the dining area and the restroom, especially seats and underneath of tables where cannot be cleaned every hour.

Referee: Mr. Tsui Tel No.: 2670 0566

Address: G/F No.1-2 Kenwood Mansion15 Playing Field Rd, Prince Edward, X Hong Kong

Website: <https://s.openrice.com/QrbS0iLq900>

Fitness Room, Tsing Yung Terrace 青榕臺

TY Terrace appointed us to provide Photocatalyst Coating service at their Fitness Room. Residents are particularly concerned about the health status of public areas during the coronavirus outbreak. However, wearing mask is difficult during workout. Our Photocatalyst Coating can kill more than 99.9% of viruses, bacteria, formaldehyde and other volatile organic substances with a long-term effect.

Referee: Ms. Cheng Tel No.: 2452 6718

Play Room, Tsing Yung Terrace 青榕臺

Elder are reading and Kids like to stay at play room for a whole day. They all are at higher risk of infection. Other than washing hand and using hand sanitizers, Photocatalyst Coating can kill more than 99.9% of viruses, bacteria, formaldehyde and other volatile organic substances with a long-term effect and has been proven that it is harmless to humans and animals.

Referee: Ms. Cheng Tel No.: 2452 6718

Po Sin Sing Kee Engineering Co., Ltd. 保鮮成記工程有限公司

Po Sin Shing Kee Engineering Co., Ltd. (PSSK) is one of the leading agents appointed by Shell Gas for liquefied petroleum gas (LPG), marine fuel and kerosene. Since then, they have gradually developed their expertise in engineering consultancy, design, maintenance and repairs.

Referee: Mr. Lee Tel No.: 3995 8228

Website: www.pssk.com.hk

Standard Type Harmless Water-Soluble Coating



For Interiors (visible light responsive powerful antibacteria type) "VLAG"

• This strongly reacts to room lighting (visible light) resulting effective in sterilization, deodorization, and air purification. • Silver ion has been added so that the deodorization function can be maintained even during the night. • In addition to interiors, this can be used as a topcoat for exterior walls that receive thin light.

(1)商品名	PALCCOAT VLAG		
(2)光触媒等の種類	酸化チタン、銀イオン		
(3)光触媒等加工部位	壁紙・繊維状		
(4)光触媒等の効果	測定方法はJIS R1701-2に準拠しました。		
空気浄化効果:UV (アセトアルデヒド)	アセトアルデヒド 除去量 *1	1.37 μ mol/h	この製品を部屋の容積1m3あたり1m2の面積使用すると、昼間に室内空気中のアセトアルデヒドを45%低減させる効果を期待できます。
空気浄化効果:UV (ホルムアルデヒド)	ホルムアルデヒド 除去量 *2	0.45 μ mol/h	この製品を部屋の容積1m3あたり1m2の面積使用すると、昼間に室内空気中のホルムアルデヒドを21%低減させる効果を期待できます。
(5)使用できる場所	窓から太陽光が入ってくる住宅・建造物の室内		
(6)安全性	急性経口毒性、皮膚一次刺激性、変異原性について、光触媒工業会の安全性基準を満足していることを確認しています。		
(7)使用上の注意	表面に過度の汚れが付着していると、十分な効果が得られませんので、定期的な洗浄をお勧めします。また、実際の効果は、本製品が使用される面積、本製品に照射される紫外光の強さ、使用される部屋の容積、使用される部屋の換気量に依存します。		
*1 光触媒工業会の認証基準はアセトアルデヒド除去量0.17 μ mol/h以上です。この数値は、50cm2あたりのアセトアルデヒド除去量であり、この数値が高いほど室内のアセトアルデヒドを低減させる効果が高くなります。			
*2 光触媒工業会の認証基準はホルムアルデヒド除去量0.17 μ mol/h以上です。この数値は、50cm2あたりのホルムアルデヒド除去量であり、この数値が高いほど室内のホルムアルデヒドを低減させる効果が高くなります。			

※光触媒工業会の表示ガイドラインを遵守して表示しています。



Ref No: PMS/TYT/197/2020

Date: 9 July 2020

Widegerm Lighting Litmmited

Flat A,3/F,Tak Wing Ind.Buliding,

3 Tsun Wen Rd,Tuen Mun,NT.

Attn: Mr. Kwok

Dear Mr. Kwok,

We would like to express our sincere appreciation for your service to us as you have provided the highest quality products with even better customer service.

Your photocatalyst coating service is marvelous and effective .It provides a strong protection to our residents and employees during COVID-19.

We have, and will continue to, recommend your services to other property and contacts. Our team could not be more satisfied with your work, and we look forward to continuing this relationship.

Yours faithfully,

Yee Cheng

Assistant Property Manager

ISS EastPoint Property Management Limited

YC/sc