

## PAA4

### High Effective Anti-Mold Nano Composite Material

### 高效抗黴奈米複合材料



## Product Information

- High effective anti-mold, pass ASTM G21 Level 0 (non mold growth). Excellent effect on organics decomposition.
- Neutral & Non-toxic nano composite material.
- Great adhesion with substrates.
- Excellent Self-cleaning capability.
- 強效抗發黴，達到ASTM G21 Level 0，完全不長黴之最高級別。
- 環保無毒之奈米材料，具有優異的分解有機物之能力。
- 與各式基材有良好附著度。
- 具有極佳的自潔能力。

**Antibacterial, Anti-UV**  
**Foul-resistance, Self-cleaning**  
 Air purification  
 抗菌性、抗UV  
 抗汙自潔、大氣淨化

**Anti-Mold**  
 防黴

Bathroom collection application 衛浴設備應用  
 Wall paper 壁紙  
 Food Factory 食品加工廠  
 Curtains 窗簾  
 Building 建築表面

Billboard 戶外廣告看板  
 Put off Aging time on Plastics 延緩塑料老化  
 and fading on paint 延緩漆料分解褪色

**Antibacterial, Anti-UV**  
**Foul-resistance**  
**Self-cleaning**  
 Air purification, Anti-mould  
 抗UV、抗汙自潔  
 大氣淨化  
 抗菌、防黴

Curtain Wall 高層建築帷幕  
 Acoustic Barrier 建築外牆 / 隔音牆  
 Wall 外牆  
 External tiles 外牆磚  
 Land Bridge 路橋  
 Public Area 戶外之公共空間  
 (Park, Statue, Road Guard)  
 (公園、紀念碑、雕像...)

**Poisonous Gas Decomposition**  
 有毒氣體分解(工業、民生用)

▲ Air-conditioning 空氣清淨機  
 VOC Decomposition 空調系統  
 (Formaldehyde, Acetaldehyde, VOC分解  
 Toluene, Ethylbenzene...) (甲醛、乙醛、甲苯、乙苯)  
 Nitrogen Oxides Decomposition 氮氧化物分解  
 (NO, NO2, NOx)





# ProShield PAA4

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## High Effective Anti-Mold Nano Composite Material 高效抗黴奈米複合材料

### Material Properties 材料特性及應用說明

PAA4 is capable of applying various metal, glass, and optical-grade thin film. Environmentally friendly JM-PAA4 has ability as Anti-mold, self cleaning, anti-bacterial, viral and deodorization material.

PAA4產品可適用於各式各樣基材表面達到高效抗發黴、自潔、抗菌、除臭等等之環保綠色材料。

### Application Material 適用材質

Metal, Ceramic tile, Wood, Plastic substrate, Textile fibers, Building stone and so on  
 金屬、陶瓷、木材、塑材、不織布、各式建材及石材

### Application Fields 適用於

Building Material, Curtains, Wall paper, Filter, Air Purification system, Decoration, Furniture  
 建材、窗簾、壁紙、濾材、空氣淨化系統、各式裝潢及傢俱

### Material Features 產品規格與特性

Propeties 性能	Description 規格說明		
Appearance 外觀	Golden liquid 黃金溶液		
Content 主要成分	TiO <sub>2</sub> , SiO <sub>2</sub> , DI water 二氧化鈦、二氧化矽、去離子水		
PH range PH 範圍	7~9		
Temperature tolerance 耐高溫	500°C (±10%)	Contact Angle 接觸角	<10°
Light source 光源需求	UV light, Visible Light 紫外光、可見光		
Hardness 硬度	Optical Glass 7H(Base on CNS10757,1995 TEST) 玻璃基材7H (符合CNS10757,1995 測試)		
Cross-Cut test 百格測試	5B		
Resistance to salt spray 耐鹽霧性	Base on CNS11607,1995 TEST 符合CNS11607,1995 測試		
Scratch Test 耐磨擦性	1000 time(Base on CNS10757,1995 TEST) 1000次(符合CNS10757,1995 測試)		
Coating thickness 塗層厚度	150nm~250nm(The thickness will be modified rely on different products). 建議厚度150nm~250nm(實際塗膜厚度請依不同產品測試結果調整)。		
Antibacterial Test 抗菌測試	The antibacterial rate is over 99% ,including Escherichia,Staphylococcus aureus,Pseudomonas aeruginosa.(under light) 抗大腸桿菌、金黃色葡萄球菌、綠膿桿菌達99%以上(需照光)。		
Anti-Mold Test 防黴測試	Aspergillus niger、Penicillium pinophilum、Chaetomium globosum、Gliocladium virens、Aureobasidium Pass ASTM G21 Level 0 (Non mold growth). 黑黴菌、四松青黴菌、球毛殼菌、綠黏帶黴菌、出芽短梗黴菌,通過ASTM G21級別0 (無黴菌生長)。		

► Bathroom collection application  
衛浴設備



Food Factory  
食品工廠



► Curtain Wall  
建築帷幕



► Living room  
客廳



Billboard  
戶外廣告看板

