

無光触媒「エコキメラ®」とは

About Non-photocatalyst "Ecokimera® (エコキメラ®)"



無色透明の溶剤
Colorless, transparent solvent

太陽光(紫外線)照射によって効果を発揮する光触媒酸化チタンを出発原料として、それをリン酸と反応させたことで、光を全く必要としない、暗所においても消臭、抗菌、防汚などの効果を発揮する画期的な無光触媒、リン酸チタニアです。

It was based on photocatalytic titanium dioxide, which takes effect when exposed to sunlight (ultraviolet radiation). By reacting TiO₂ with phosphoric acid, we were able to create titanium phosphate, a revolutionary non-photocatalyst which works to deodorize, resist bacteria, and guard against dirt even in dark places.

「エコキメラ®」は株式会社YOOコーポレーションの登録商標 "Ecokimera® (エコキメラ®)" is a registered trademark of YOO Corporation

消臭 抗菌 防汚 防カビ

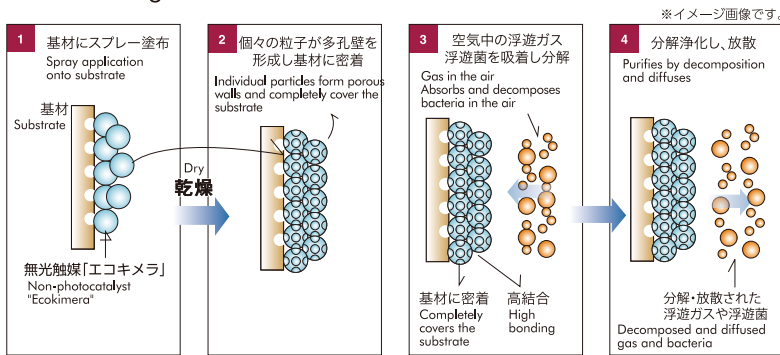
暗所でも効果 24時間休まず働く シックハウス対策

Deodorizing, antibacterial, dirt resistant, mold resistant

Effective even in dark places, works around the clock, effective against Sick House Syndrome

消臭・抗菌メカニズム

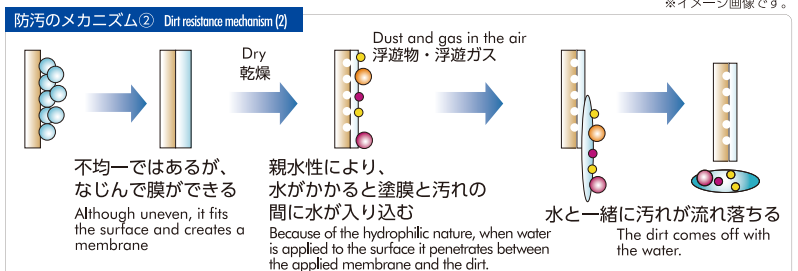
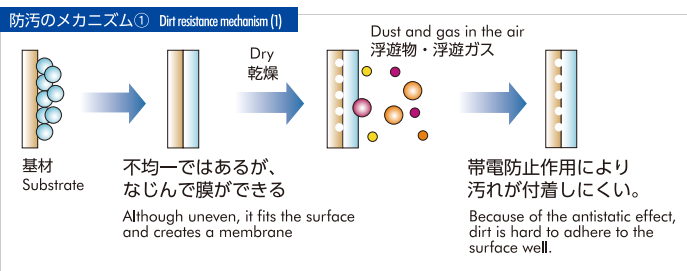
Deodorizing and antibacterial mechanism



光触媒との比較 Comparison with photocatalysts

| | 無光触媒 Non-photocatalyst | 光触媒 Photocatalyst |
|--|--|--|
| 紫外線照射 Exposure to ultraviolet radiation | 不必要 Unnecessary | 必要 Necessary |
| 有機バインダー Organic binder | 不使用 Unnecessary | 必要 Necessary |
| 密着性 Coverage | 強固 Strong | 軟弱 Weak |
| 硬度 Hardness | 8H | 4H |
| 透明性 Transparency | 高い High | やや白色 Whitish |
| 経時変化 Change in properties over time | 高い耐久性 Highly durable | バインダーと素材が劣化 Binder and material degrade |
| 膜形成方法 Method of membrane formation | スプレー・ロール塗工 Spray, Roll coating | 熟練が必要 Requires skill |
| 活性化メカニズム Activation mechanism | H ₂ O ₂ による酸化還元 Oxidation-reduction using H ₂ O ₂ | 光励起 Photo-excitation |

防汚メカニズム Dirt resistance mechanism



開発中 Development

消臭抗菌内装材

Deodorizing Antimicrobial Interior Material

特徴 Features

- ①リン酸チタニア系化合物を塗工
 - ②ホルムアルデヒドなどを分解
 - ③消臭、抗菌効果は永年に持続
 - ④あらゆる基材の密着性が高い
 - ⑤材料、塗工量などの仕様は応相談
1. Painted with a phosphate titania type compound
 2. Decomposes formaldehyde, etc.
 3. Deodorizing and antimicrobial effects last for many years
 4. High adhesion for all substrates
 5. Materials, amount of paint, etc., are negotiable



消臭 抗菌 防汚 親水

住宅内装材 自動車内装材 親水効果が必要な用途

Deodorizing, Antimicrobial, Antifouling, Hydrophilic

For indoor use in houses and cars and all of your hydrophilic effect needs

開発中 Development

親水フィルム

Hydrophilic Film

特徴 Features

- ①リン酸チタニア系化合物を塗工
 - ②帯電防止による粉塵付着防止
 - ③ウォータースポットによる汚れ防止
 - ④材料、塗工量などの仕様は応相談
1. Painted with a phosphate titania type compound
 2. Antistatic property prevents dust accumulation
 3. Prevents marks/dirt from water spots
 4. Specifications such as materials, amount of paint, etc., are negotiable

