

JM Nanocomposite Material

JM-TS001

Product Features



JM-TS001 is a surface treatment with self-cleaning, anti-dirt, air purification and VOC-decomposition functions. Dust particles do not adhere well because of ionic charges on coating surface.

Non-Toxic and Environmentally-Friendly Nano Coat treatment on surfaces. Excellent Heat-Resistance (up to 500°C)

Product Comparison

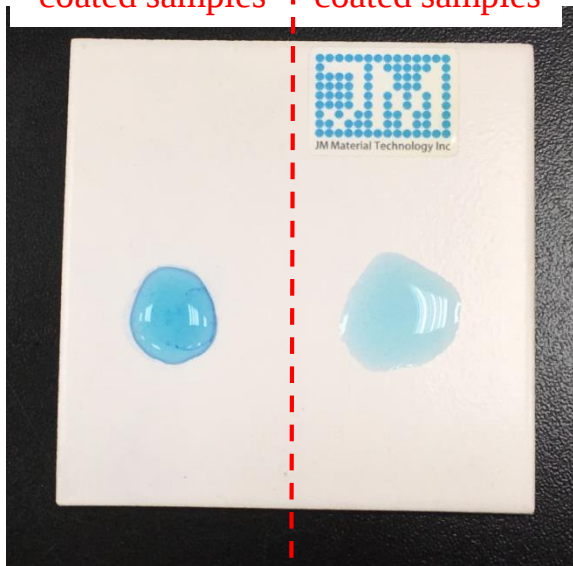
	Technical Comparison
Nano Grade Materials	1. Nanocomposite material is a neutral aqueous solution, the average particle diameter is small, does not aggregate or precipitate. 2. Nano composite material exposed to light produces electron hole pairing; these electron hole pairings have strong oxidizing abilities that take advantage to decompose grease and dirt attached to the surfaces of these objects. 3. Material has long term stability, safe and easy storage and is non-toxic to human and is environmentally friendly. 4. Can be applied on the majority of organic/inorganic materials, ex. Metal, plastic, glass, textiles and paper materials.
Non-Nano Grade Materials	1. Titanium dioxide photocatalyst powder is added to acidic organic solvents, the average particle diameter is large. Particles easily aggregates and precipitates. 2. Coating adhesion is poor and coat is not uniform, organic solvent decomposes causing flaking and peeling in coating. 3. The titanium dioxide photocatalyst is easy to aggregate in the solvent and precipitates 4. Only suitable on inorganic materials that are acidproof or heat-resistant

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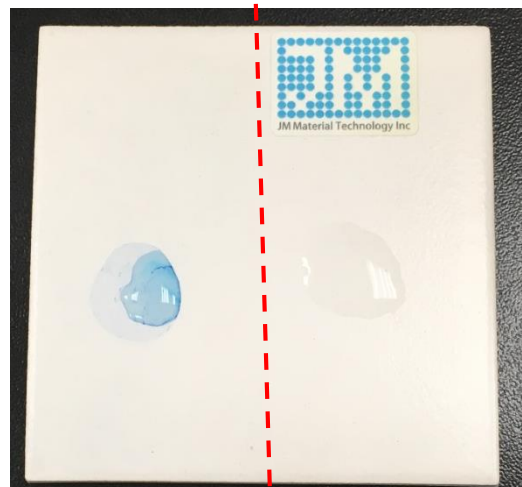
Product Applications

Non-nano grade
coated samples
 |
 JM-TS001
coated samples



Dye Solution (Methylene Blue) Degradation
 Test: Drop 1ml of 5ppm Methylene blue
 solution on each coated surfaces then activate
 with UVC light for 7 minutes.

Non-nano grade
coated samples
 |
 JM-TS001
coated samples



Comparison of methylene blue degradation test.
 Before UVC light activation(above) and after UVC
 light activation (right).
 Results demonstrating JM-TS001 coating has
 higher efficiency.

- Kaoshung Apartment exterior
- Tai Yuen Hi-Tech Industrial Park



Product Certification:

TN-031 Verification and Validation Standard on Self-Cleaning Nano
 Photocatalyst Paint



JM Material Technology Inc.
 Tel.886-3-2860499 Fax.886-3-3560499
<http://www.jm-tech.com.tw>