TITAN Shield®

TSV50-02
PRODUCT DATA SHEETS E

Visible Light Response Deodorization & Air Purification Nano TiO2 Sol Coating Agent

Substrate Applicability:

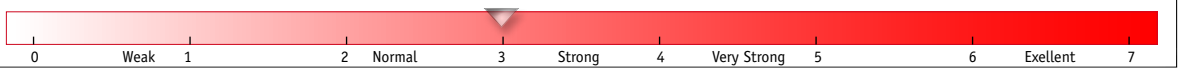
Stone	★★★★☆
Tile	★★★★☆
Glass	★★★★☆
Plastic / Polymer	★★☆☆☆
Metal	★★★☆☆
*Paint	★★★★★
Polymer Fabric	★★★★☆
*Wood	★★★★☆

Feature& Performance:

Water purification	★★★☆☆
Odor Elimination	★★★★☆
Super-hydrophilic	★★★★★
Anti-moss	★★★★★
Air purification	★★★★☆
Antimicrobial	★★★★☆
Self-cleaning	★★★★★

* Primer might be needed.

binding strength



Approx. drying temperature/ time.

Special properties:

- water-based nano TiO2 sol
- high efficiency
- excellent deodorization & air purification performance
- no additive, surfactant and binder, suitable for re-processing
- improved binding strength

Example of application:

- UV/PCO filter & part coating (especial for deodorization)
- home and public deodorization & air purification coating
- industrial air purification and deodorization coating
- raw material or additive for other commercial PCO product

Usage instructions:

- recommend air mix pressure spraying (HVLP)
- brush for rough surface
- dipping for irregular items
- mix with binder or other modified active matter
- Trigger Spray to use at home, office and car

Dosage instruction:

- refer to relevant coverage data sheet or product manual 25-40ml/m2

Transport Information

No Transport danger for Air, See, Highway and Rail, transportation of dangerous goods

Storage stability:

12 months in closed container 5-45°C, dark condition.
Protect solution in opened container from Oxigen.
Avoid freezing! storind above 5°C

Technical Information:	
Chemical description:	nano titanium dioxide sol
• **appearance:**	Yellowish transparent liquid
Active matter content:	
• **TiO_2**	0,75% – 1,0%
• **Water content:**	97% ± 1%
• **Alcohol content:**	0%

Specification:	
• **PH Value:**	PH 7,5 - 10,0
• **primary particle size:**	< 8 nm
• **crystal structure:**	TiO2 Anatase
• **agglomeration index:**	2-4 %
• **density:**	1.02-1.03 g/ml
• **Viscosity:**	1.0050 mPa.s
• **binding strength:**	Strong (level 3)

• **Drying time at 25°C**	
Primary drying time:	30 minutes
Final setting time:	30 days

Registration status:

The ingredients are listed in the following chemical inventories:
CAS, EINECS, TSCA, AICS, CEPA, MITI

Package:

10 L, 25 L, Plastic / Polymer barrel with carton
30 L, 100 L, 200 L Plastic / Polymer barrel

* refer to relevant (MSDS) Material Safety Data Sheet