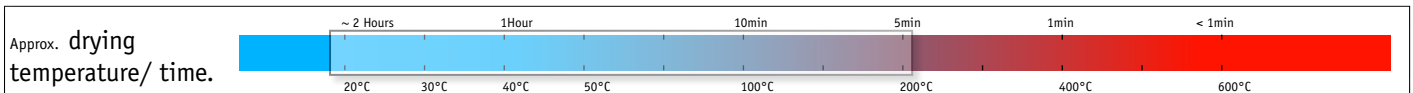
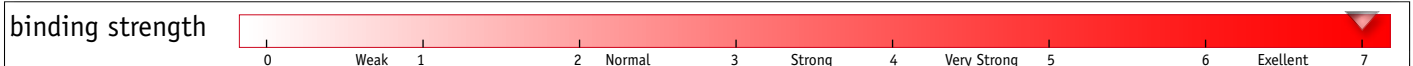


### HD Nano TiO<sub>2</sub>/WO<sub>3</sub>/SiO<sub>2</sub> Sol transparent photocatalyst for self-cleaning Glass & tile

Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★★★★
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★★★★★	Super-hydrophilic ★★★★★
Plastic / Polymer ★★★★★	Anti-moss ★★★★★
Metal ★★★★★	Air purification ★★★★★
*Paint ★★★★★	Antimicrobial ★★★★★
*Fabric ★★★★★	Self-cleaning ★★★★★
*Wood ★★★★★	* Primer might be needed.



#### Special properties:

- Water/ Alcohol based nano TiO<sub>2</sub>/WO<sub>3</sub>/SiO<sub>2</sub> sol
- high efficiency
- Excellent degree of dispersion for water and alcohol based system
- room temperature to 200°C drying

#### Example of application:

- Coatings on the Glass or Tile
- Specially higher pencil hardness above 7H
- high efficient Outdoor Visible Light PCO coating for Selfcleaning
- Excellent transparency on the Glass
- \* Glossy Tiles will appear slightly lower gloss then before!

#### Usage instructions:

- recommend air mix pressure spraying (HVLP)
- bar coating

#### Dosage instruction:

- refer to relevant coverage data sheet or product manual  
80ml/m<sup>2</sup> for Stone, 30-40ml/m<sup>2</sup> for Mirror

#### Transport Information

\* refer to relevant (MSDS) Material Safety Data Sheet



#### Storage stability:

12 months in closed container 5-45°C, dark condition.  
Protect solution in opened container from Oxygen.

**Avoid freezing!** storind above 5°C

#### Technical Information:

**Chemical description:** nano TiO<sub>2</sub>/WO<sub>3</sub>/SiO<sub>2</sub> sol

**• appearance:** transparent liquid

#### Active matter content:

**TiO<sub>2</sub> 0.5% WO<sub>3</sub> 0.5% SiO<sub>2</sub> 2% ± 0.1%**

**• Water content:** 37% ± 1%

**• Alcohol content:** 60% ± 1%

#### Specification:

**• PH Value:** PH 3.5-4.0

**• primary particle size:** 20-30 nm

**• crystal structure:** TiO<sub>2</sub> Anatase

**• agglomeration index:** 8 - 10 %

**• density:** 1.0075-1.01 g/ml

**• Viscosity:** 1.0050 mPa.s

**• binding strength:** Exelent (level 7) H7

#### • 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