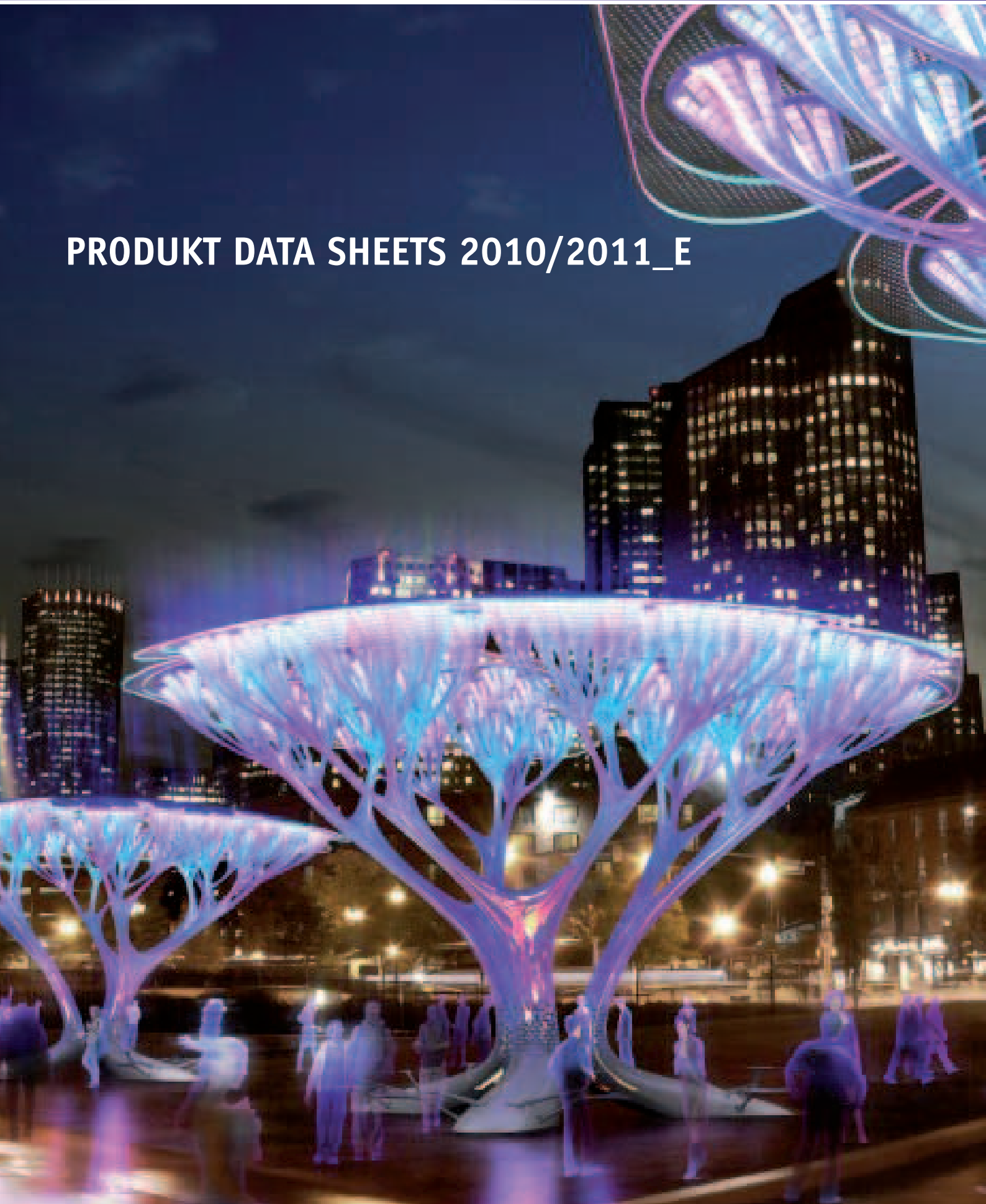


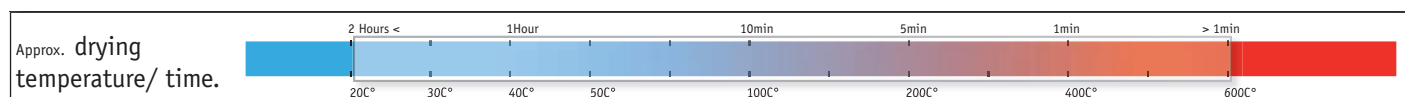
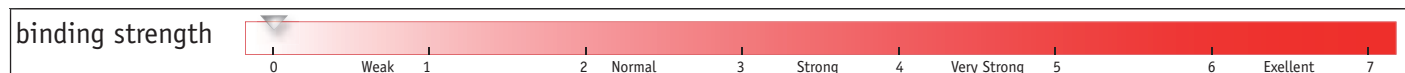
## PRODUKT DATA SHEETS 2010/2011\_E



PRODUCT FAMILY	Product Code	Product Color Code	Page
UNIVERSAL	TSU38-01	U- Code	1
	TSU38-02		2
EXTERIOR	TSA50-02	A- Code	3
	TSA50-03		4
	TSA51-02HD		5
	TSA80-01HD		6
DESINFECTION	TSS40-05AG	S- Code	7
	TSS40-06AG		8
	TSA42-05AG		9
	TSRV-PHD		10
GLASS COATING	TSG38-P	G- Code	11
	TSG50-02		12
	TSG80-01HD		13
TitanShield® SolarCoat	TS-SolarCoat	TS-SolarCoat	14
PLASTIC & POLYMER	TSK50-01	K- Code	15
	TSK50-02		16
	TSK51-01HD		17
ODOR ELIMINATION AIR PURIFICATION	TSV50-02	V- Code	18
	TSV51-02HD		19
FILTERTECHNIC	TSP60-01	P- Code	20
	TSP60-02		21
PRIMER	TSB-01	B- Code	22
	TSB-02		23
	TSB-03		24
INDUSTRY	TSH1-05HD 5% Slurry		25
	TSH1-10HD 10% Slurry		26
	TSH1-15HD 15% Concentrat		27
	TSNP-01 TiO <sub>2</sub> Nano Pulver		28
	TSNP-02 N <sub>2</sub> ,TiO <sub>2</sub> Nano Pulver		29
	TSNP-03 AG,TiO <sub>2</sub> Nano Pulver		30

### UV Reactiv Nano TiO2 Sol General Coating Agent

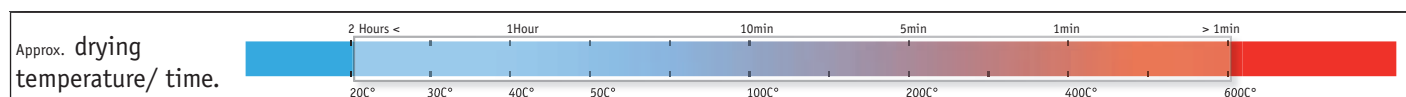
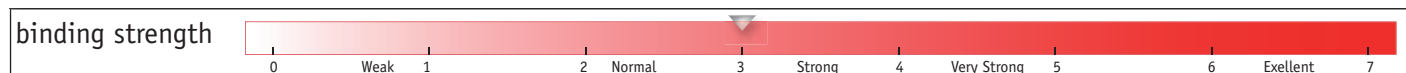
Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★★★★
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★★★★★	Super-hydrophilic ★★★★★
Plastic/ Polymer ★★★★★	Anti-moss ★★★★★
Metal ★★★★★	Air purification ★★★★★
* Facade paint ★★★★★	Antimicrobial ★★★★★
* Fabric ★★★★★	Self-cleaning ★★★★★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



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO2 sol</li> <li>• low cost (economical choice)</li> <li>• no additive, surfactant and binder, suitable for re-processing</li> </ul>	<b>Technical Information:</b> <p><b>Chemical description:</b> nano titanium dioxide sol</p> <p>• <b>appearance:</b> Bluish White transparent liquid</p> <p><b>Active matter content:</b></p> <p><b>TiO2</b> 0.75% - 1,0%</p> <p>• <b>Water content:</b> 99% ± 1%</p> <p>• <b>Alcohol content:</b> 0%</p>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• economical exterior UV/PCO coating for atmosphere purification</li> <li>• UV/PCO filter &amp; part coating (especial for deodorization)</li> <li>• raw material or additive for other commercial PCO product</li> </ul>	<p><b>Specification:</b></p> <p>• <b>PH Value:</b> PH 8 - 10</p> <p>• <b>primary particle size:</b> &lt; 8 nm</p> <p>• <b>crystal structure:</b> TiO2 Anatas</p> <p>• <b>agglomeration index:</b> 2-4</p> <p>• <b>density:</b> 1.0075-1.01 g/ml</p> <p>• <b>Viscosity:</b> 1.0050 mPa.s</p> <p>• <b>binding strength:</b> very weak (level 0)</p>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular surface</li> </ul> <p><b>Dosage instruction:</b></p> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 60-100 ml/m<sup>2</sup>. for marble &amp; stone, 30-50ml/m<sup>2</sup>. for tile</li> </ul>	<p>• <b>Drying time at 25C°</b></p> <p>Primary drying time: 30 minutes</p> <p>Final setting time: 30 days</p>
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<p><b>Registration status:</b></p> <p>respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI</p>
<b>Storage stability:</b> 12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	<p><b>Package:</b></p> <p>10 L, 25 L, Plastic / Polymer barrel with carton            30 L, 100 L, 200 L Plastic / Polymer barrel</p> <p>* refer to relevant (MSDS) Material Safety Data Sheet</p>
















### UV Reactiv Nano TiO2 Sol General Coating Agent

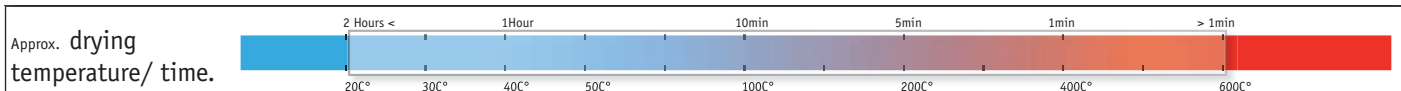
Substrate Applicability:	Feature & Performance:
Stone ★★☆☆☆	Water purification ★★☆☆☆
Tile ★★☆☆☆	Odor Elimination ★★☆☆☆
Glass ★★☆☆☆	Super-hydrophilic ★★☆☆☆
Plastic/ Polymer ★★☆☆☆	Anti-moss ★★☆☆☆
Metal ★★☆☆☆	Air purification ★★☆☆☆
* Facade paint ★★☆☆☆	Antimicrobial ★★☆☆☆
* Fabric ★★☆☆☆	Self-cleaning ★★☆☆☆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



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO2 sol</li> <li>• low cost (economical choice)</li> <li>• no additive, surfactant and binder, suitable for re-processing</li> <li>• Improved binding strenght</li> </ul>	<b>Technical Information:</b> <p><b>Chemical description:</b> nano titanium dioxide sol</p> <p><b>• appearance:</b> Yellowish transparent liquid</p> <p><b>Active matter content:</b> TiO2 0.75% - 1,0%</p> <p><b>• Water content:</b> 99% ± 1%</p> <p><b>• Alcohol content:</b> 0%</p>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• ExteriorUV/PCO coating for atmosphere air purification</li> <li>• economical exterior UV/PCO coating for atmosphere purification</li> <li>• UV/PCO filter &amp; part coating (especial for deodorization)</li> <li>• raw material or additive for other commercial PCO product</li> </ul>	<b>Specification:</b> <p><b>• PH Value:</b> PH 7.5 - 10</p> <p><b>• primary particle size:</b> &lt; 8 nm</p> <p><b>• crystal structure:</b> TiO2 Anatas</p> <p><b>• agglomeration index:</b> 2-4</p> <p><b>• density:</b> 1.0075-1.01 g/ml</p> <p><b>• Viscosity:</b> 1.0050 mPa.s</p> <p><b>• binding strength:</b> Strong (level 3)</p>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular surface</li> <li>• Mixing to produce PCO products</li> </ul> <p><b>Dosage instruction:</b></p> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> <li>60-100 ml/m<sup>2</sup>. for marble &amp; stone, 30-50ml/m<sup>2</sup>. for tile</li> </ul>	<p><b>• Drying time at 25°C</b></p> <p>Primary drying time: 30 minutes</p> <p>Final setting time: 30 days</p>
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
<b>Storage stability:</b> 12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	<b>Package:</b> 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

### Visible Light Reactiv Nano TiO<sub>2</sub> Sol Exterior Coating Agent

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



#### Special properties:

- water-based nano TiO<sub>2</sub> sol
- high efficiency
- self-cleaning application optimization
- room temperature to 600°C drying
- Improved binding strength for exterior application

#### Example of application:

- building exterior self-cleaning coating
- stone surface anti moss coating
- high efficient exterior UV/PCO coating for atmosphere purification

#### Usage instructions:

- recommend air mix pressure spraying (HVLP)
- brush for rough surface
- dipping for irregular surface
- Mixing to produce PCO products

#### Dosage instruction:

- refer to relevant coverage data sheet or product manual  
60-100 ml/m<sup>2</sup> for marble & stone, 30-50ml/m<sup>2</sup> for tile

#### Transport Information

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

#### Storage stability:

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

**Avoid freezing!** storind above 5°C

#### Technical Information:

**Chemical description:** nano titanium dioxide sol

• **appearance:** Yellowish transparent liquid

#### Active matter content:

**TiO<sub>2</sub>** 0.75% - 1,0%

• **Water content:** 99% ± 1%

• **Alcohol content:** 0%

#### Specification:

• **PH Value:** PH 7.5 - 10

• **primary particle size:** < 8 nm

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

• **agglomeration index:** 2-4

• **density:** 1.0075-1.01 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:

respectively its ingredients are listed in following chemical inventories:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

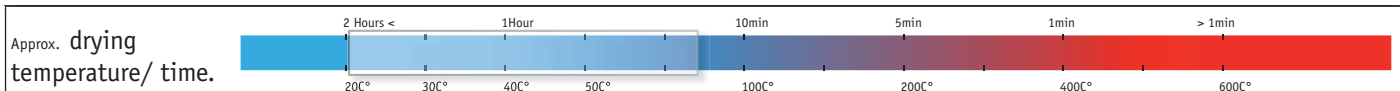
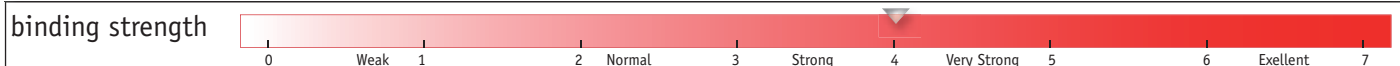
#### Package:

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

### Visible Light Reactiv Nano TiO<sub>2</sub> Exterior Coating Agent

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



#### Special properties:

- water-based nano TiO<sub>2</sub> sol
- high efficiency
- self-cleaning application optimization
- room temperature to 600C° drying
- extra binding strength for porous and rough substrate

#### Example of application:

- building exterior self-cleaning coating
- stone surface anti moss coating
- high efficient exterior UV/PCO coating for atmosphere purification

#### Usage instructions:

- recommend air mix pressure spraying (HVLP)
- brush for rough surface
- dipping for irregular surface
- Mixing to produce PCO products

#### Dosage instruction:

- refer to relevant coverage data sheet or product manual  
60-100 ml/m<sup>2</sup> for marble & stone, 30-50ml/m<sup>2</sup> for tile

#### Transport Information

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

#### Storage stability:

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

**Avoid freezing!** storind above 5C°

#### Technical Information:

**Chemical description:** nano titanium dioxide sol

• **appearance:** Bluish white transparent liquid

#### Active matter content:

**TiO<sub>2</sub>** 0.75% - 1,0%

• **Water content:** 99% ± 1%

• **Alcohol content:** 0%

#### Specification:

• **PH Value:** PH 7.5 - 10

• **primary particle size:** < 8 nm

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

• **agglomeration index:** 2-4

• **density:** 1.0075-1.01 g/ml

• **Viscosity:** 1.0050 mPa.s

• **binding strength:** very strong (level 4)

#### • Drying time at 25C°

Primary drying time: 30 minutes

Final setting time: 30 days

#### Registration status:

respectively its ingredients are listed in following chemical inventories:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

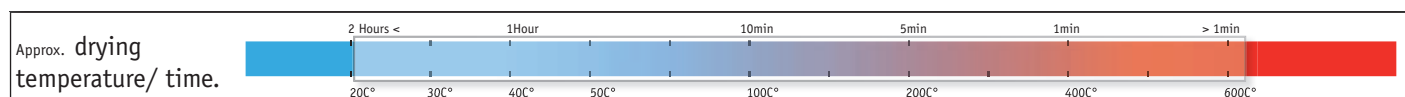
#### Package:

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

### HD Visible Light Reactiv Nano TiO<sub>2</sub> High Performance Exterior Coating Agent

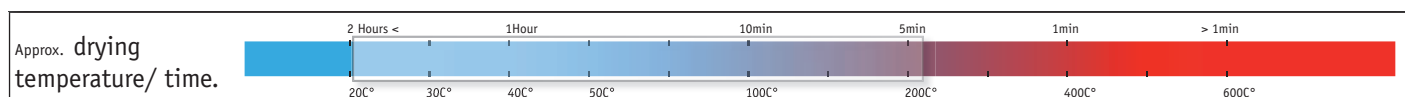
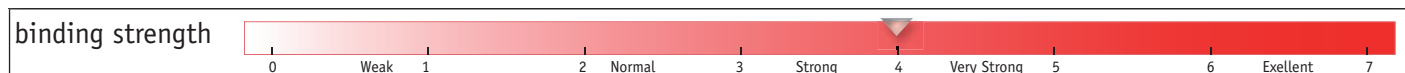
Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★★★★
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★★★★★	Super-hydrophilic ★★★★★
Plastic/ Polymer ★★★★★	Anti-moss ★★★★★
Metal ★★★★★	Air purification ★★★★★
* Facade paint ★★★★★	Antimicrobial ★★★★★
* Fabric ★★★★★	Self-cleaning ★★★★★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



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub> sol</li> <li>• high efficiency</li> <li>• self-cleaning application optimization</li> <li>• room temperature to 600°C drying</li> <li>• extra binding strength for porous and rough substrate</li> </ul>	<b>Technical Information:</b> <p><b>Chemical description:</b> nano titanium dioxide sol</p> <p><b>• appearance:</b> Yelowish transparent liquid</p> <p><b>Active matter content:</b></p> <p><b>• TiO<sub>2</sub></b> 2,2 – 2,5 %</p> <p><b>• Water content:</b> 97% ± 1%</p> <p><b>• Alcohol content:</b> 0%</p> <p><b>Specification:</b></p> <p><b>• PH Value:</b> PH 7.5 - 10</p> <p><b>• primary particle size:</b> &lt; 8 nm</p> <p><b>• crystal structure:</b> TiO<sub>2</sub> Anatas</p> <p><b>• agglomeration index:</b> 2-4</p> <p><b>• density:</b> 1.0075-1.01 g/ml</p> <p><b>• Viscosity:</b> 1.0050 mPa.s</p> <p><b>• binding strength:</b> Strong (level 3)</p> <p><b>• Drying time at 25°C°</b></p> <p>Primary drying time: 30 minutes</p> <p>Final setting time: 30 days</p>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• building exterior self-cleaning coating</li> <li>• stone surface anti moss coating</li> <li>• high efficient exterior UV/PCO coating for atmosphere purification</li> </ul>	<p><b>Registration status:</b></p> <p>respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI</p>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular surface</li> <li>• Mixing to produce PCO products</li> </ul> <p><b>Dosage instruction:</b></p> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 60-100 ml/m<sup>2</sup> for marble &amp; stone, 30-50ml/m<sup>2</sup> for tile</li> </ul>	<p><b>Package:</b></p> <p>10 L, 25 L, Plastic / Polymer barrel with carton 30 L, 100 L, 200 L Plastic / Polymer barrel</p> <p>* refer to relevant (MSDS) MATERIAL SAFETY DATA SHEET</p>
<b>Transport Information</b> <p>No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods</p>	
<b>Storage stability:</b> <p>12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C°</p>	

### Visible Light Reactiv Nano TiO<sub>2</sub>,WO<sub>3</sub>, SiO<sub>2</sub> High Performance Exterior Coating Agent

Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★☆☆☆☆
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★☆☆☆☆	Super-hydrophilic ★★★★★
Plastic/ Polymer ★☆☆☆☆	Anti-moss ★★★★★
Metal ★☆☆☆☆	Air purification ★★★★★
* Facade 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
- self-cleaning application optimization
- room temperature to 200C° drying
- extra binding strength for porous and rough substrate

**Example of application:**

- building exterior self-cleaning coating
- stone surface anti moss coating
- high efficient Outdoor Visible Light PCO coating for Selfcleaning

**Usage instructions:**

- recommend air mix pressure spraying (HVLP)
- brush for rough surface
- dipping for irregular surface

**Dosage instruction:**

- refer to relevant coverage data sheet or product manual  
60-80 ml/m<sup>2</sup>· for marble and Stone, 30-40ml/m<sup>2</sup>· for tile

**Transport Information**
















- refer to relevant (MSDS) MATERIAL SAFETY DATA SHEET

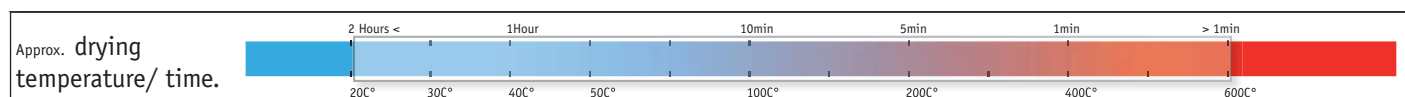
**Storage stability:**

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

Technical Information:	
<b>Chemical description:</b>	nano titanium dioxide sol
<b>• appearance:</b>	Milky transparent liquid
<b>Active matter content:</b>	
<b>• TiO<sub>2</sub> 0,5%, WO<sub>3</sub> 0,5%, SiO<sub>2</sub> 1,0%</b>	
<b>• Water content:</b>	40% ± 1%
<b>• Alcohol content:</b>	58%
<b>Specification:</b>	
<b>• PH Value:</b>	PH 3.0 - 4.0
<b>• primary particle size:</b>	< 20 nm
<b>• crystal structure:</b>	TiO2 Anatas
<b>• agglomeration index:</b>	2-4
<b>• density:</b>	1.0075-1.01 g/ml
<b>• Viscosity:</b>	1.0050 mPa.s
<b>• binding strength:</b>	Very Strong (level 4)
<b>• Drying time at 25C°</b>	
Primary drying time:	30 minutes
Final setting time:	30 days
<b>Registration status:</b>	
respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI	
<b>Package:</b>	
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	

### Nano Silver modified TiO2 Sol Antimicrobial Coating Agent

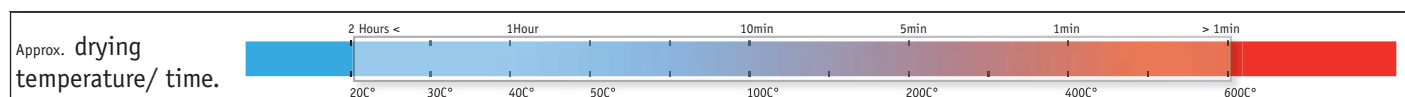
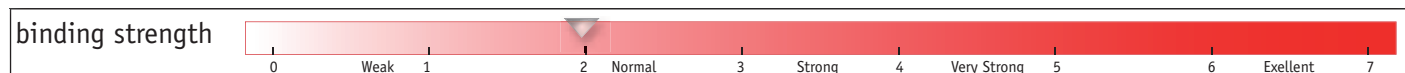
Substrate Applicability:	Feature & Performance:
Stone 	Water purification 
Tile 	Odor Elimination 
Glass 	Super-hydrophilic 
Plastic / Polymer 	Anti-moss 
Metal 	Air purification 
* Faccade paint 	Antimicrobial 
* Fabric 	Self-cleaning 
* Wood 	* Primer might be needed.



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO2 sol</li> <li>• nano silver modification, high performance for anti-bacterial</li> <li>• improved wetting feature on fabric</li> <li>• improved Coating feature on Plastic</li> <li>• improved binding strength</li> </ul>	<b>Technical Information:</b> <p><b>Chemical description:</b> nano titanium dioxide sol</p> <p><b>• appearance:</b> Yellowish transparent liquid</p> <p><b>Active matter content:</b></p> <p><b>• TiO2</b> 0,75 – 1,0 %</p> <p><b>• Water content:</b> 99% ± 1%</p> <p><b>• Alcohol content:</b> 0%</p>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• anti-bacterial &amp; anti-virus fabric coating &amp; treatment</li> <li>• air filter coating (especial for anti-bacterial &amp; anti-virus)</li> <li>• home sanitization (for house, cloth, ...)</li> <li>• public place anti-bacterial coating (hospital, bus, train, school)</li> <li>• high efficient indoor anti-bacterial &amp; anti-virus coating</li> </ul>	<b>Specification:</b> <p><b>• PH Value:</b> PH 7,5 - 9,5</p> <p><b>• primary particle size:</b> &lt; 8 nm</p> <p><b>• crystal structure:</b> TiO2 Anatas</p> <p><b>• agglomeration index:</b> 2-4</p> <p><b>• density:</b> 1.0075-1.01 g/ml</p> <p><b>• Viscosity:</b> 1.0050 mPa.s</p> <p><b>• binding strength:</b> Strong (level 3)</p>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular items</li> <li>• Trigger Spray to use at home, office and car</li> </ul>	<p><b>• Drying time at 25°C</b></p> <p>Primary drying time: 30 minutes</p> <p>Final setting time: 30 days</p>
<b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> </ul>	<b>Registration status:</b> <p>respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI</p>
<b>Transport Information</b> <p>No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods</p>	<b>Package:</b> <p>10 L, 25 L, Plastic / Polymer barrel with carton 30 L, 100 L, 200 L Plastic / Polymer barrel</p>
<b>Storage stability:</b> <p>12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen.</p> <p><b>Avoid freezing!</b> storind above 5°C</p>	<p>* refer to relevant (MSDS) Material Safety Data Sheet</p>

### Nano Silver modified TiO2 Sol Antimicrobial Coating Agent

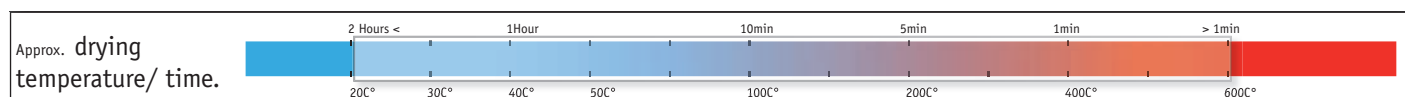
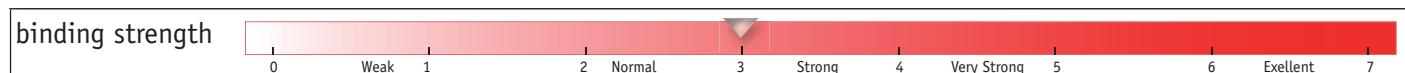
Substrate Applicability:	Feature & Performance:
Stone	Water purification
Tile	Odor Elimination
Glass	Super-hydrophilic
Plastic / Polymer	Anti-moss
Metal	Air purification
*Faccade paint	Antimicrobial
*Fabric	Self-cleaning
*Wood	* Primer might be needed.



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO2 sol</li> <li>• nano silver modification, high performance for anti-bacterial</li> <li>• improved wetting feature on fabric</li> <li>• improved Coating feature on Plastic</li> <li>• improved binding strength</li> </ul>	<b>Technical Information:</b> <p><b>Chemical description:</b> nano titanium dioxide sol</p> <p><b>• appearance:</b> Yellowish transparent liquid</p> <p><b>Active matter content:</b></p> <p><b>• TiO2</b> 0.75% - 1,0%</p> <p><b>• Water content:</b> 99% ± 1%</p> <p><b>• Alcohol content:</b> 0%</p>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• anti-bacterial &amp; anti-virus fabric coating &amp; treatment</li> <li>• air filter coating (especial for anti-bacterial &amp; anti-virus)</li> <li>• home sanitization (for house, cloth, ...)</li> <li>• public place anti-bacterial coating (hospital, bus, train, school)</li> <li>• high efficient indoor anti-bacterial &amp; anti-virus coating</li> </ul>	<b>Specification:</b> <p><b>• PH Value:</b> PH 7,5 - 10</p> <p><b>• primary particle size:</b> &lt; 8 nm</p> <p><b>• crystal structure:</b> TiO2 Anatas</p> <p><b>• agglomeration index:</b> 2-4</p> <p><b>• density:</b> 1.0075-1.01 g/ml</p> <p><b>• Viscosity:</b> 1.0050 mPa.s</p> <p><b>• binding strength:</b> Normal (level 2)</p>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular items</li> <li>• Trigger Spray for home, office and car use</li> </ul>	<p><b>• Drying time at 25C°</b></p> <p>Primary drying time: 30 minutes</p> <p>Final setting time: 30 days</p>
<b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> </ul>	<b>Registration status:</b> <p>respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI</p>
<b>Transport Information</b> <p>No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods</p>	<b>Package:</b> <p>10 L, 25 L, Plastic / Polymer barrel with carton 30 L, 100 L, 200 L Plastic / Polymer barrel</p>
<b>Storage stability:</b> <p>12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°</p>	<p>* refer to relevant (MSDS) Material Safety Data Sheet</p>

### Nano Silver modified TiO2 Sol Antimicrobial Coating Agent

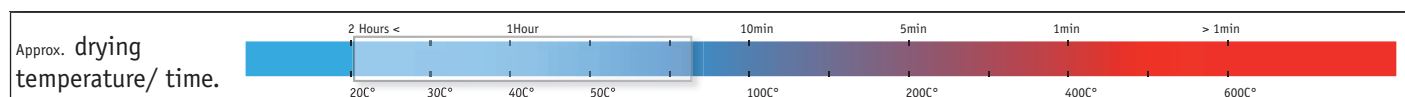
Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★★★★
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★★★★★	Super-hydrophilic ★★★★★
Plastic / Polymer ★★★★★	Anti-moss ★★★★★
Metal ★★★★★	Air purification ★★★★★
*Faccade paint ★★★★★	Antimicrobial ★★★★★
*Fabric ★★★★★	Self-cleaning ★★★★★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



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO2 sol</li> <li>• excellent performance for anti-bacterial</li> <li>• improved wetting feature on fabric</li> <li>• improved Coating feature on Plastic</li> <li>• improved binding strength</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> Yellowish transparent liquid <b>Active matter content:</b> <b>• TiO2</b> 0.75% - 1,0% <b>• Water content:</b> 99% ± 1% <b>• Alcohol content:</b> 0%
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• anti-bacterial &amp; anti-virus fabric coating &amp; treatment</li> <li>• air filter coating (especial for anti-bacterial &amp; anti-virus)</li> <li>• home sanitization (for house, cloth, ...)</li> <li>• public place anti-bacterial coating (hospital, bus, train, school)</li> <li>• high efficient indoor anti-bacterial &amp; anti-virus coating</li> </ul>	<b>Specification:</b> <b>• PH Value:</b> PH 8,0 - 10 <b>• primary particle size:</b> < 8 nm <b>• crystal structure:</b> TiO2 Anatas <b>• agglomeration index:</b> 2-4 <b>• density:</b> 1.0075-1.01 g/ml <b>• Viscosity:</b> 1.0050 mPa.s <b>• binding strength:</b> Strong (level 3)
	<b>• Drying time at 25C°</b> Primary drying time: 30 minutes Final setting time: 30 days
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular items</li> <li>• Trigger Spray for home, office and car use</li> </ul>	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
<b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> </ul>	<b>Package:</b> 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
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	
<b>Storage stability:</b> 12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	

## HD TiO<sub>2</sub>, WO<sub>3</sub>, SiO<sub>2</sub> Antimicrobial & Air Purification Coating Agent

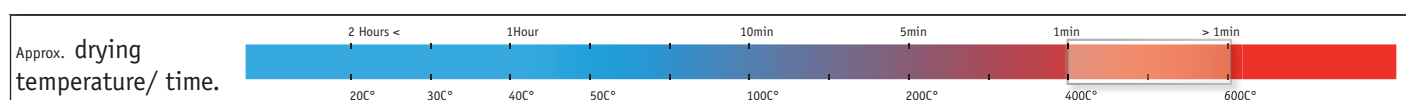
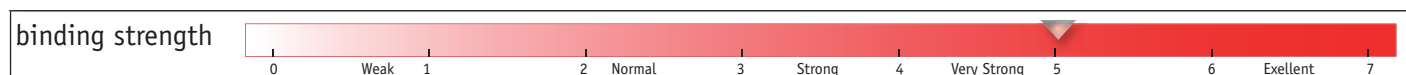
Substrate Applicability:	Feature & Performance:
Stone	Water purification
Tile	Odor Elimination
Glass	Super-hydrophilic
Plastic / Polymer	Anti-moss
Metal	Air purification
* Faccade paint	Antimicrobial
* Fabric	Self-cleaning
* Wood	* Primer might be needed.



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub>/WO<sub>3</sub>/SiO<sub>2</sub> sol</li> <li>• high efficiency</li> <li>• Excellent degree of dispersion for water based system</li> <li>• Specially higher photo-catalytic activity in the UV-Visible light</li> <li>• Good crystalline structure &amp; WO<sub>3</sub>-TiO<sub>2</sub> Hybrid system</li> <li>• room temperature drying</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> Milky white transparent liquid <b>Active matter content:</b> <b>TiO<sub>2</sub> 3,0%, WO<sub>3</sub> 1,0%, SiO<sub>2</sub> 1,0%</b> <b>• Water content:</b> 94% ± 1% <b>• Alcohol content:</b> 0%
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• Sick Car/ Building Syndrom</li> <li>• anti-bacterial &amp; anti-virus fabric coating &amp; treatment</li> <li>• home sanitization (for house, cloth, ...)</li> <li>• public place anti-bacterial coating (hospital, bus, train, school)</li> <li>• high efficient indoor anti-bacterial &amp; anti-virus coating</li> </ul>	<b>Specification:</b>
	<b>• PH Value:</b> PH 3.0 - 4.0 <b>• primary particle size:</b> < 20 nm <b>• crystal structure:</b> TiO <sub>2</sub> Anatas <b>• agglomeration index:</b> 2-4 <b>• density:</b> 1.0075-1.01 g/ml <b>• Viscosity:</b> 1.0050 mPa.s <b>• binding strength:</b> Normal (level 2)
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular items</li> <li>• Trigger Spray for home, office and car use</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> </ul> 30 - 60 ml/m <sup>2</sup>	<b>• Drying time at 25°C</b>
	Primary drying time: 30 minutes Final setting time: 30 days
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
	<b>Package:</b> 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
<b>Storage stability:</b> 12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	

### Industry Nano TiO2 Sol for Glass & Ceramic Heat Coating Agent

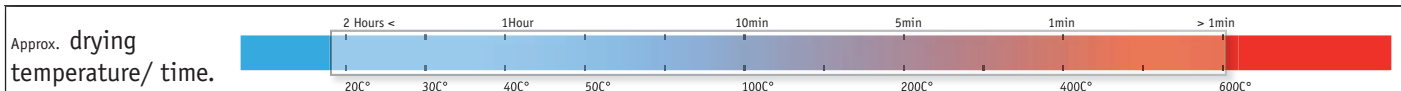
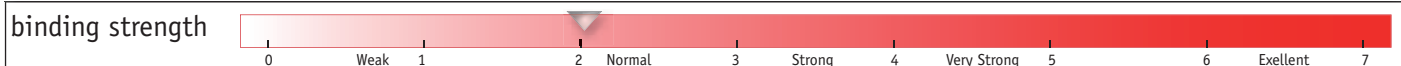
Substrate Applicability:	Feature & Performance:
Stone	Water purification
Tile	Odor Elimination
Glass	Super-hydrophilic
Plastic / Polymer	Anti-moss
Metal	Air purification
*Faccade paint	Antimicrobial
*Fabric	Self-cleaning
*Wood	* Primer might be needed.



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO2 sol</li> <li>• Glass surface passivation modification</li> <li>• extra improved binding strength</li> <li>• need heat over 400C° after coating</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> Yellowish transparent liquid <b>Active matter content:</b> <b>• TiO2</b> 0,75%– 1,0% <b>• Water content:</b> 99% ± 1% <b>• Alcohol content:</b> 0%
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• self-cleaning &amp; anti-fog Glass surface processing</li> <li>• self-cleaning &amp; anti-moss marble, granite surface processing</li> <li>• self-cleaning &amp; anti-bacterial tile surface processing</li> <li>• self-cleaning &amp; anti-rust metal surface processing</li> </ul>	<b>Specification:</b> <b>• PH Value:</b> PH 6,5 - 8,5 <b>• primary particle size:</b> < 8 nm <b>• crystal structure:</b> TiO2 Anatas <b>• agglomeration index:</b> 2-4 <b>• density:</b> 1.0075-1.01 g/ml <b>• Viscosity:</b> 1.0050 mPa.s <b>• binding strength:</b> Strong (level 5)
	<b>• Drying time at 25C°</b> Primary drying time: 30 minutes Final setting time: 30 days
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• Industry Spray System</li> <li>• Spinning coating</li> <li>• Dipping coating</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 25-30ml/m2</li> </ul>	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
<b>Transport Information</b> No Transport danger for Air, See, Highway and Rail, transportation of dangerous goods	<b>Package:</b> 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
<b>Storage stability:</b> 12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	

### Nano TiO<sub>2</sub> Sol Glass & Ceramic Coating Agent

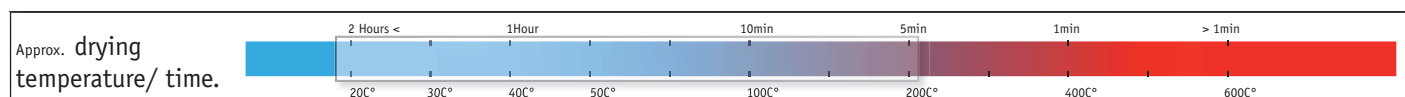
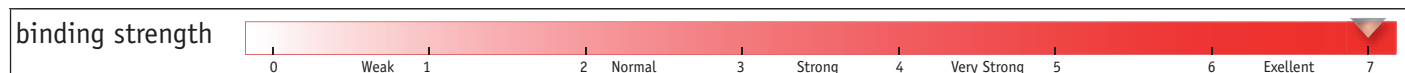
Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★☆☆☆☆
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★★★★★	Super-hydrophilic ★★★★★
Plastic / Polymer ★★★★★	Anti-moss ★★★★★
Metal ★★★★★	Air purification ★★★★★
* Faccade paint ★★★★★	Antimicrobial ★★★★★
* Fabric ★★★★★	Self-cleaning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



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub> sol</li> <li>• high efficiency</li> <li>• self-cleaning application optimization</li> <li>• optimization for Glass surface, excellent optical feature on Glass</li> <li>• room temperature to 600C° drying</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> Yellowish transparent liquid <b>Active matter content:</b> <b>• TiO<sub>2</sub></b> 0,6%– 0,8% <b>• Water content:</b> 99% ± 1% <b>• Alcohol content:</b> 0%
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• building exterior self-cleaning coating</li> <li>• exterior Glass surface self-cleaning coating</li> <li>• self-cleaning &amp; anti-bacterial tile surface processing</li> <li>• exterior glossy metal self-cleaning coating</li> </ul>	<b>Specification:</b>
	<b>• PH Value:</b> PH 7,5 - 10,0 <b>• primary particle size:</b> < 8 nm <b>• crystal structure:</b> TiO <sub>2</sub> Anatas <b>• agglomeration index:</b> 2-4 <b>• density:</b> 1.0075-1.01 g/ml <b>• Viscosity:</b> 1.0050 mPa.s <b>• binding strength:</b> Normal (level 2)
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend HVLP air mix pressure spraying</li> <li>• polish coating</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 25-40ml/m<sup>2</sup></li> </ul>	<b>• Drying time at 25C°</b>
	Primary drying time: 30 minutes Final setting time: 30 days
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
	<b>Package:</b> 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
<b>Storage stability:</b> 12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	

#### 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
* Faccade paint	Antimicrobial
* Fabric	Self-cleaning
* Wood	* Primer might be needed.

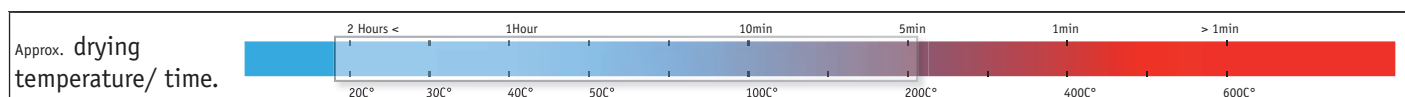
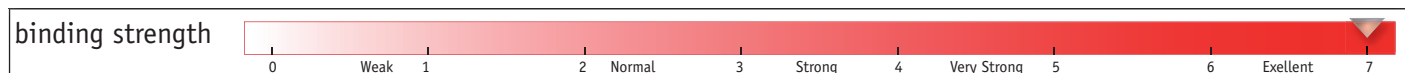


<b>Special properties:</b> <ul style="list-style-type: none"> <li>• Water/ Alcohol based nano TiO<sub>2</sub>/WO<sub>3</sub>/SiO<sub>2</sub> sol</li> <li>• high efficiency</li> <li>• Excellent degree of dispersion for water and alcohol based system</li> <li>• room temperature to 200C° drying</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> nano TiO <sub>2</sub> /WO <sub>3</sub> /SiO <sub>2</sub> sol
	<b>• appearance:</b> transparent liquid
	<b>Active matter content:</b>
	<b>TiO<sub>2</sub> 0.5% WO<sub>3</sub> 0.5% SiO<sub>2</sub> 2% ± 0.1%</b>
	<b>• Water content:</b> 37% ± 1%
	<b>• Alcohol content:</b> 60% ± 1%
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• Coatings on the Glass or Tile</li> <li>• Specially higher pencil hardness above 7H</li> <li>• high efficient Outdoor Visible Light PCO coating for Selfcleaning</li> <li>• Excellent transparency on the Glass</li> <li>* Glossy Tiles will appear slightly lower gloss then before!</li> </ul>	<b>Specification:</b>
	<b>• PH Value:</b> PH 3.5-4.0
	<b>• primary particle size:</b> < 20-30 nm
	<b>• crystal structure:</b> TiO <sub>2</sub> Anatas
	<b>• agglomeration index:</b> 2-4
	<b>• density:</b> 1.0075-1.01 g/ml
	<b>• Viscosity:</b> 1.0050 mPa.s
	<b>• binding strength:</b> Exelent (level 7) H7
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• bar coating</li> </ul>	<b>• Drying time at 25C°</b>
<b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> <li>80ml/m<sup>2</sup> for Stone, 30-40ml/m<sup>2</sup> for Mirror</li> </ul>	<b>Primary drying time:</b> 30 minutes
	<b>Final setting time:</b> 30 days
<b>Transport Information</b> <ul style="list-style-type: none"> <li>* refer to relevant (MSDS) Material Safety Data Sheet</li> </ul>	<b>Registration status:</b>
	respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
<b>Storage stability:</b>	<b>Package:</b>
12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	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



### Nano TiO<sub>2</sub>, SiO<sub>2</sub> Sol Anti Reflectiv transparent photocatalyst for self-cleaning glass and solar panels

Substrate Applicability:	Feature & Performance:
Stone	Water purification
Tile	Odor Elimination
Glass	Super-hydrophilic
Poly Silicon Iron Glass	Anti-moss
Metall	Air purification
FTO Glass	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 200C° drying

**Example of application:**

- Photocatalytic and Transmittance enhancer for Solar cell glass
- Excellent transmittance on the Poly Silicon Iron Glass & FTO Glass
- Specially higher pencil hardness above 7H
- high efficient Visible Light PCO coating for Selfcleaning on Greenhouses
- Excellent antireflect coating for glass and metal

**Usage instructions:**

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

**Dosage instruction:**

- refer to relevant coverage data sheet or product manual 30-50ml/m<sup>2</sup>

**Transport Information**

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

**Storage stability:**

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

**Technical Information:**

<b>Chemical description:</b>	nano TiO <sub>2</sub> , SiO <sub>2</sub> sol
<b>appearance:</b>	milky transparent liquid
<b>Active matter content:</b>	<b>TiO<sub>2</sub> 0.5% WO<sub>3</sub> 0.5% SiO<sub>2</sub> 2% ± 0.1%</b>
<b>Water content:</b>	37% ± 1%
<b>Alcohol content:</b>	60% ± 1%

**Specification:**

<b>PH Value:</b>	PH 3.5 - 4.0
<b>primary particle size:</b>	< 20 nm
<b>crystal structure:</b>	TiO <sub>2</sub> Anatas
<b>agglomeration index:</b>	2 - 4
<b>density:</b>	1.0075-1.01 g/ml
<b>Viscosity:</b>	1.0050 mPa.s
<b>binding strength:</b>	Exelent (level 7) H6-7
<b>Drying time at 25C°</b>	
Primary drying time:	30 minutes
Final setting time:	30 days

**Registration status:**

respectively its ingredients are listed in following chemical inventories:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

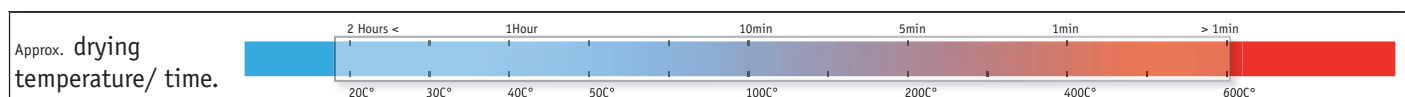
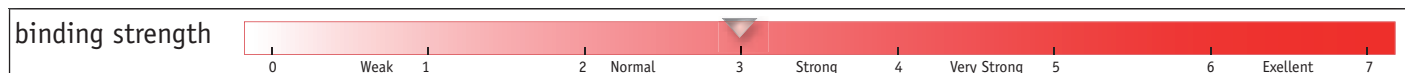
**Package:**

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

### Nano TiO<sub>2</sub> Sol Plastic / Polymer & Glass Coating Agent

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



**Special properties:**

- water-based nano TiO<sub>2</sub> sol
- improved wetting feature for plastic and polymer coating
- self-cleaning application
- room temperature to 600C° drying

**Example of application:**

- high efficient plastic coating
- high efficient metal coating
- polymer fabric coating & processing
- exterior glossy metal self-cleaning coating

**Usage instructions:**

- recommend HVLP air mix pressure spraying
- Spinning coating
- dipping for fabric & irregular items

**Dosage instruction:**

- refer to relevant coverage data sheet or product manual  
25-40ml/m<sup>2</sup>

**Transport Information**

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

**Storage stability:**

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

**Technical Information:**

<b>Chemical description:</b>	nano titanium dioxide sol
<b>• appearance:</b>	Yellowish transparent liquid
<b>Active matter content:</b>	
<b>• TiO<sub>2</sub></b>	0,75% – 1,0%
<b>• Water content:</b>	99% ± 1%
<b>• Alcohol content:</b>	0%

**Specification:**

<b>• PH Value:</b>	PH 7,5 - 10,0
<b>• primary particle size:</b>	< 8 nm
<b>• crystal structure:</b>	TiO <sub>2</sub> Anatas
<b>• agglomeration index:</b>	2 - 4
<b>• density:</b>	1.0075-1.01 g/ml
<b>• Viscosity:</b>	1.0050 mPa.s
<b>• binding strength:</b>	Strong (level 3)

**• Drying time at 25C°**

Primary drying time:	30 minutes
Final setting time:	30 days

**Registration status:**

respectively its ingredients are listed in following chemical inventories:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

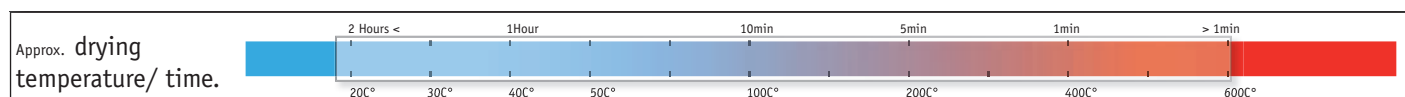
**Package:**

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

### Nano TiO<sub>2</sub> Sol Plastic, Polymer, Polymer Fabric & Glass Coating Agent

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

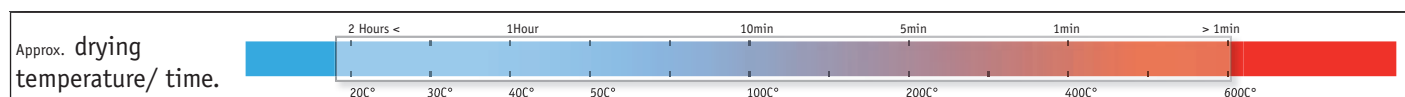
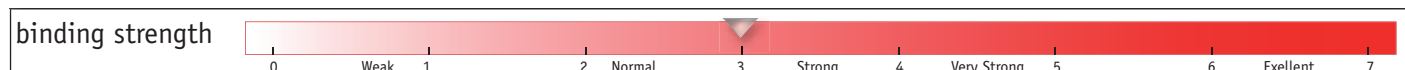


<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub> sol</li> <li>• improved wetting feature for plastic and polymer coating</li> <li>• self-cleaning application</li> <li>• room temperature to 600C° drying</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> Yellowish transparent liquid <b>Active matter content:</b> <b>• TiO<sub>2</sub></b> 0,6% – 0,8% <b>• Water content:</b> 99% ± 1% <b>• Alcohol content:</b> 0%
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• high efficient plastic coating</li> <li>• high efficient metal coating</li> <li>• polymer fabric coating &amp; processing</li> <li>• exterior glossy metal self-cleaning coating</li> </ul>	<b>Specification:</b>
	<b>• PH Value:</b> PH 7,5 - 10,0 <b>• primary particle size:</b> < 8 nm <b>• crystal structure:</b> TiO <sub>2</sub> Anatas <b>• agglomeration index:</b> 2 - 4 <b>• density:</b> 1.0075-1.01 g/ml <b>• Viscosity:</b> 1.0050 mPa.s <b>• binding strength:</b> Normal (level 2)
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend HVLP air mix pressure spraying</li> <li>• Spinning coating</li> <li>• dipping for fabric &amp; irregular items</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 25-40ml/m<sup>2</sup></li> </ul>	<b>• Drying time at 25C°</b>
	Primary drying time: 30 minutes Final setting time: 30 days
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
	<b>Package:</b> 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
<b>Storage stability:</b> 12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	

### Nano TiO<sub>2</sub> Sol Plastic, Polymer, Polymer Fabric & Glass Coating Agent
















Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★★★★
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★★★★★	Super-hydrophilic ★★★★★
Plastic / Polymer ★★★★★	Anti-moss ★★★★★
Metal ★★★★★	Air purification ★★★★★
* Facade paint ★★★★★	Antimicrobial ★★★★★
Polymer Fabric ★★★★★	Self-cleaning ★★★★★
* Wood ★★★★★	

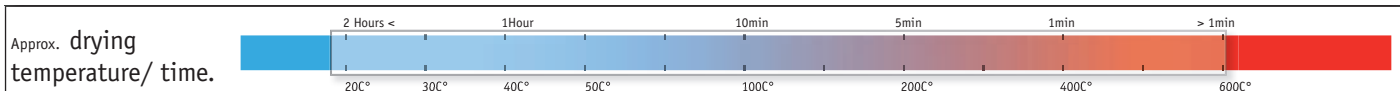
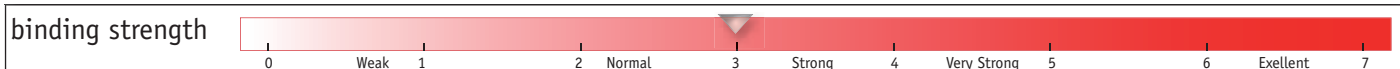
\* Primer might be needed.



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub> sol</li> <li>• improved wetting feature for plastic and polymer coating</li> <li>• self-cleaning application</li> <li>• room temperature to 600°C drying</li> </ul>	<b>Technical Information:</b>														
	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> Yellowish transparent liquid <b>Active matter content:</b> <ul style="list-style-type: none"> <li>• TiO<sub>2</sub> 2,0%– 2,5%</li> <li>• Water content: 97% ± 1%</li> <li>• Alcohol content: 0%</li> </ul>														
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• high efficient plastic coating</li> <li>• high efficient metal coating</li> <li>• polymer fabric coating &amp; processing</li> <li>• exterior glossy metal self-cleaning coating</li> </ul>	<b>Specification:</b> <table border="1"> <tbody> <tr> <td>• PH Value:</td> <td>PH 7,5 - 10,0</td> </tr> <tr> <td>• primary particle size:</td> <td>&lt; 8 nm</td> </tr> <tr> <td>• crystal structure:</td> <td>TiO<sub>2</sub> Anatas</td> </tr> <tr> <td>• agglomeration index:</td> <td>2 - 4</td> </tr> <tr> <td>• density:</td> <td>1.02-1.03 g/ml</td> </tr> <tr> <td>• Viscosity:</td> <td>1.0050 mPa.s</td> </tr> <tr> <td>• binding strength:</td> <td>Strong (level 3)</td> </tr> </tbody> </table>	• PH Value:	PH 7,5 - 10,0	• primary particle size:	< 8 nm	• crystal structure:	TiO <sub>2</sub> Anatas	• agglomeration index:	2 - 4	• density:	1.02-1.03 g/ml	• Viscosity:	1.0050 mPa.s	• binding strength:	Strong (level 3)
	• PH Value:	PH 7,5 - 10,0													
• primary particle size:	< 8 nm														
• crystal structure:	TiO <sub>2</sub> Anatas														
• agglomeration index:	2 - 4														
• density:	1.02-1.03 g/ml														
• Viscosity:	1.0050 mPa.s														
• binding strength:	Strong (level 3)														
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend HVLP air mix pressure spraying</li> <li>• dipping for fabric &amp; irregular items</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 25-40ml/m<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Drying time at 25°C</b></li> </ul> <table border="1"> <tbody> <tr> <td>Primary drying time:</td> <td>30 minutes</td> </tr> <tr> <td>Final setting time:</td> <td>30 days</td> </tr> </tbody> </table>	Primary drying time:	30 minutes	Final setting time:	30 days										
	Primary drying time:	30 minutes													
Final setting time:	30 days														
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI														
	<b>Package:</b> 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														
<b>Storage stability:</b> 12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C															

### Visible Light Response Deodorization & Air Purification Nano TiO<sub>2</sub> Sol Coating Agent

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



#### Special properties:

- water-based nano TiO<sub>2</sub> 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/m<sup>2</sup>

#### Transport Information

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

#### Storage stability:

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

**Avoid freezing!** storind above 5°C

#### Technical Information:

<b>Chemical description:</b>	nano titanium dioxide sol
<b>• appearance:</b>	Yellowish transparent liquid
<b>Active matter content:</b>	
<b>• TiO<sub>2</sub></b>	0,75% – 1,0%
<b>• Water content:</b>	97% ± 1%
<b>• Alcohol content:</b>	0%

#### Specification:

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

#### • Drying time at 25°C

Primary drying time:	30 minutes
Final setting time:	30 days

#### Registration status:

respectively its ingredients are listed in following chemical inventories:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

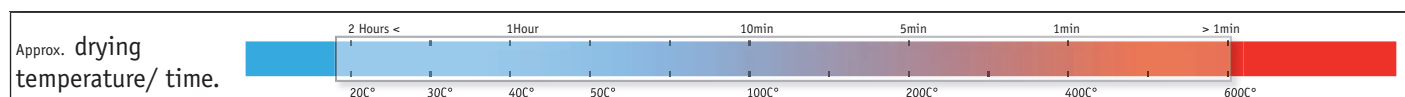
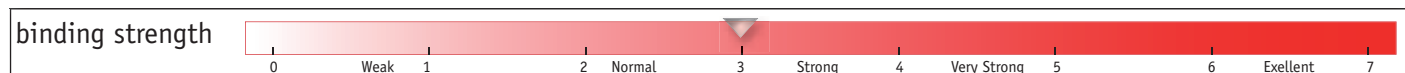
#### Package:

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

#### HD Visible Light Response Deodorization & Air Purification Nano TiO<sub>2</sub> Sol Coating Agent

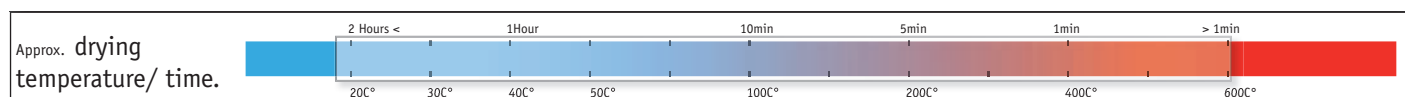
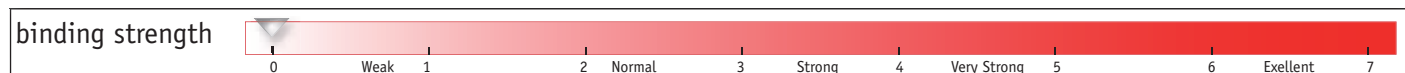
Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★★★★
Tile ★★★★★	Odor Elimination ★★★★★
Glass ★★★★★	Super-hydrophilic ★★★★★
Plastic / Polymer ★★★★★	Anti-moss ★★★★★
Metal ★★★★★	Air purification ★★★★★
* Facade paint ★★★★★	Antimicrobial ★★★★★
Polymer Fabric ★★★★★	Self-cleaning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



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub> sol</li> <li>• high efficiency</li> <li>• excellent deodorization &amp; air purification performance</li> <li>• no additive, surfactant and binder, suitable for re-processing</li> <li>• improved binding strength</li> </ul>	<b>Technical Information:</b> <p><b>Chemical description:</b> nano titanium dioxide sol</p> <p><b>• appearance:</b> Yellowish transparent liquid</p> <p><b>Active matter content:</b></p> <p><b>• TiO<sub>2</sub></b> 2,0% – 2,5%</p> <p><b>• Water content:</b> 97% ± 1%</p> <p><b>• Alcohol content:</b> 0%</p>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• UV/PCO filter &amp; part coating (especial for deodorization)</li> <li>• home and public deodorization &amp; air purification coating</li> <li>• industrial air purification and deodorization coating</li> <li>• raw material or additive for other commercial PCO product</li> </ul>	<b>Specification:</b> <p><b>• PH Value:</b> PH 7,5 - 10,0</p> <p><b>• primary particle size:</b> &lt; 8 nm</p> <p><b>• crystal structure:</b> TiO<sub>2</sub> Anatas</p> <p><b>• agglomeration index:</b> 2-4</p> <p><b>• density:</b> 1.02-1.03 g/ml</p> <p><b>• Viscosity:</b> 1.0050 mPa.s</p> <p><b>• binding strength:</b> Strong (level 3)</p>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular items</li> <li>• mix with binder or other modified active matter</li> <li>• Trigger Spray to use at home, office and car</li> </ul>	<p><b>• Drying time at 25°C</b></p> <p>Primary drying time: 30 minutes</p> <p>Final setting time: 30 days</p>
<b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 25-40ml/m<sup>2</sup></li> </ul>	<b>Registration status:</b> <p>respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI</p>
<b>Transport Information</b> <p>No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods</p>	<b>Package:</b> <p>10 L, 25 L, Plastic / Polymer barrel with carton 30 L, 100 L, 200 L Plastic / Polymer barrel</p>
<b>Storage stability:</b> <p>12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C</p>	<p>* refer to relevant (MSDS) Material Safety Data Sheet</p>

### Platinum doping modified Nano TiO<sub>2</sub> Sol Coating Agent

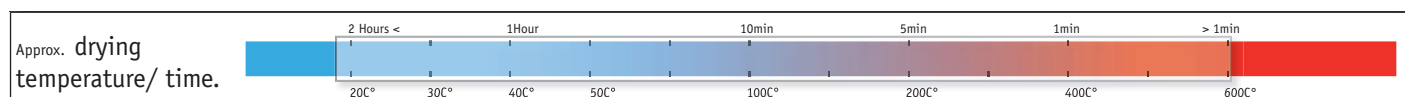
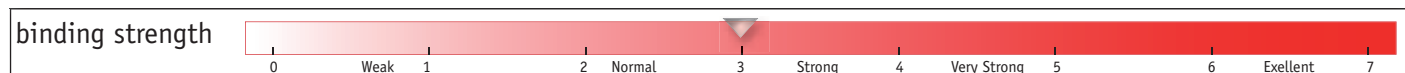
Substrate Applicability:	Feature & Performance:
Stone	Water purification
Tile	Odor Elimination
Glass	Super-hydrophilic
Plastic / Polymer	Anti-moss
Metal	Air purification
* Facade paint	Antimicrobial
Polymer Fabric	Self-cleaning
* Wood	* Primer might be needed.



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub> sol</li> <li>• platinum doping modification, very high efficient</li> <li>• excellent performance for most applications</li> <li>• high stability under harsh condition</li> <li>• no additive, surfactant and binder, suitable for re-processing</li> </ul>	<b>Technical Information:</b>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• PCO filter &amp; part coating (good balance for most application)</li> <li>• PCO water treatment device part coating</li> <li>• industrial air purification and deodorization coating</li> <li>• raw material or additive for other commercial PCO product</li> </ul>	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> bluish white transparent liquid <b>Active matter content:</b>
	<b>• TiO<sub>2</sub></b> 0,75 – 1,0% <b>• Water content:</b> 98% ± 1% <b>• Alcohol content:</b> 0%
	<b>Specification:</b>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• dipping for irregular items</li> <li>• mix with binder or other modified active matter</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> </ul>	<b>• PH Value:</b> PH 8,0 - 10,0 <b>• primary particle size:</b> < 8 nm <b>• crystal structure:</b> TiO <sub>2</sub> Anatas <b>• agglomeration index:</b> 2-4 <b>• density:</b> 1.02-1.03 g/ml <b>• Viscosity:</b> 1.0050 mPa.s <b>• binding strength:</b> Very weak (level 0)
	<b>• Drying time at 25°C</b>
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	Primary drying time: 30 minutes Final setting time: 30 days
	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
<b>Storage stability:</b> 12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	<b>Package:</b> 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

### Platinum doping modified Nano TiO<sub>2</sub> Sol Coating Agent

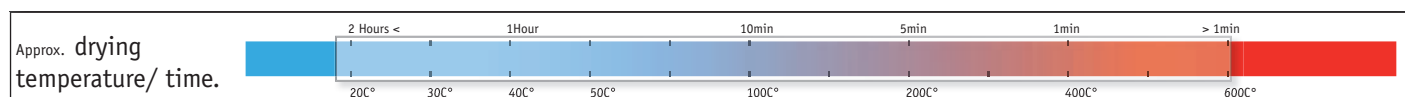
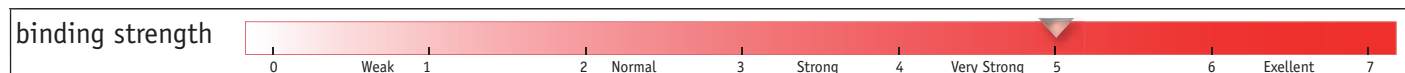
Substrate Applicability:	Feature & Performance:
Stone	Water purification
Tile	Odor Elimination
Glass	Super-hydrophilic
Plastic / Polymer	Anti-moss
Metal	Air purification
* Facade paint	Antimicrobial
Polymer Fabric	Self-cleaning
* Wood	* Primer might be needed.



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based nano TiO<sub>2</sub> sol</li> <li>• platinum doping modification, very high efficient</li> <li>• excellent performance for most applications</li> <li>• high stability under harsh condition</li> <li>• no additive, surfactant and binder, suitable for re-processing</li> </ul>	<b>Technical Information:</b>			
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• PCO filter &amp; part coating (good balance for most application)</li> <li>• PCO water treatment device part coating</li> <li>• industrial air purification and deodorization coating</li> <li>• raw material or additive for other commercial PCO product</li> </ul>	<b>Chemical description:</b> nano titanium dioxide sol <b>• appearance:</b> yellowish transparent liquid			
	<b>Active matter content:</b> <ul style="list-style-type: none"> <li>• <b>TiO<sub>2</sub></b> 0,75 – 1,0%</li> <li>• <b>Water content:</b> 98% ± 1%</li> <li>• <b>Alcohol content:</b> 0%</li> </ul>			
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• dipping for irregular items</li> <li>• mix with binder or other modified active matter</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> </ul>	<b>Specification:</b> <ul style="list-style-type: none"> <li>• <b>PH Value:</b> PH 7,5 - 10,0</li> <li>• <b>primary particle size:</b> &lt; 8 nm</li> <li>• <b>crystal structure:</b> TiO<sub>2</sub> Anatas</li> <li>• <b>agglomeration index:</b> 2-4</li> <li>• <b>density:</b> 1.02-1.03 g/ml</li> <li>• <b>Viscosity:</b> 1.0050 mPa.s</li> <li>• <b>binding strength:</b> Strong (level 3)</li> </ul>			
	<ul style="list-style-type: none"> <li>• <b>Drying time at 25°C</b></li> </ul> <table border="1"> <tr> <td>Primary drying time:</td> <td>30 minutes</td> </tr> <tr> <td>Final setting time:</td> <td>30 days</td> </tr> </table>	Primary drying time:	30 minutes	Final setting time:
Primary drying time:	30 minutes			
Final setting time:	30 days			
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI			
<b>Storage stability:</b> 12 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	<b>Package:</b> 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			

#### Primer General TiO<sub>2</sub> undecoating Agent

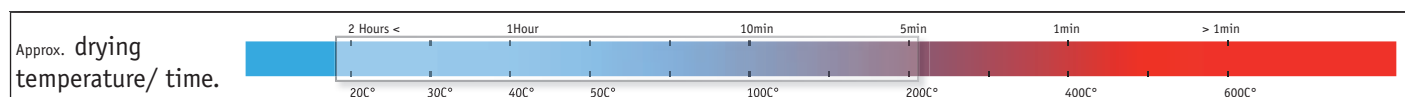
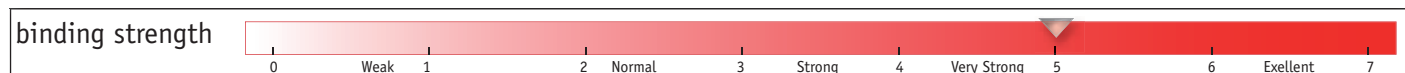
Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★☆☆☆
Tile ★★★★★	Odor Elimination ★★☆☆☆
Glass ★★☆☆☆	Super-hydrophilic ★★☆☆☆
Plastic / Polymer ★★☆☆☆	Anti-moss ★★☆☆☆
Metal ★★☆☆☆	UV Block ★★★★★
Faccade paint ★★★★★	PCO Protect ★★★★★
Polymer Fabric ★★☆☆☆	Binding enhance ★★★★★
Wood ★★★★★	



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based primer for nano photocatalyst top coating</li> <li>• block UV</li> <li>• protect organic substrate from photocatalytic oxidization damage</li> <li>• enhance binding strength of top photocatalyst coating</li> <li>• Reduce Top Coat</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> deactivated nano titanium dioxide sol
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• primer on acrylic paint surface to protect substrate</li> <li>• primer on stone to enhance photocatalyst coating binding</li> <li>• block UV coating</li> </ul>	<b>• appearance:</b> yellowish transparent liquid
	<b>Active matter content:</b>
	<b>• TiO<sub>2</sub></b> 0,75 – 1,0%
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular items</li> </ul>	<b>• Water content:</b> 98% ± 1%
	<b>Dosage instruction:</b>
	<b>• Alcohol content:</b> 0%
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Specification:</b>
	<b>• PH Value:</b> PH 7,5 - 10,0
	<b>• primary particle size:</b> < 3 nm
<b>Storage stability:</b> 24 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	<b>• crystal structure:</b> TiO <sub>2</sub> Anatas / amorph
	<b>• agglomeration index:</b> < 10 cps
	<b>• density:</b> 1.0075-1.01 g/ml
<b>Storage stability:</b> 24 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	<b>• Viscosity:</b> 1.0050 mPa.s
	<b>• binding strength:</b> Exellent (Index 5)
	<b>• Drying time at 25°C</b>
<b>Storage stability:</b> 24 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	Primary drying time: 30 minutes
	Final setting time: 30 days
	<b>Registration status:</b>
<b>Storage stability:</b> 24 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
	<b>Package:</b>
	10 L, 25 L, Plastic / Polymer barrel with carton 30 L, 100 L, 200 L Plastic / Polymer barrel
<b>Storage stability:</b> 24 months in closed container under 5-45°C, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5°C	* refer to relevant (MSDS) Material Safety Data Sheet

## Rough Surface Primer TiO<sub>2</sub> Undecoating Agent

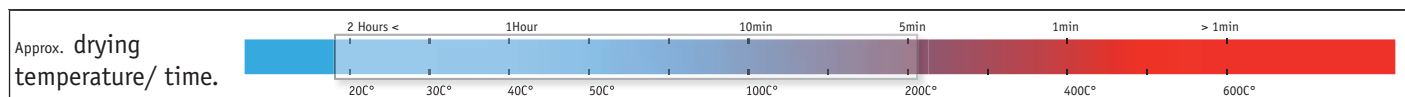
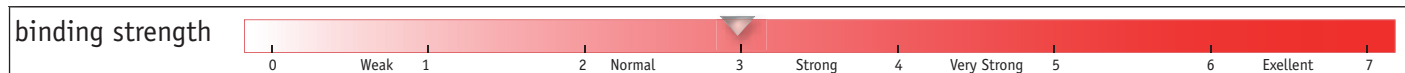
Substrate Applicability:	Feature & Performance:
Stone ★★★★★	Water purification ★★☆☆☆
Tile ★★★★★	Odor Elimination ★★☆☆☆
Glass ★★★★★	Super-hydrophilic ★★☆☆☆
Plastic / Polymer ★★★★★	Anti-moss ★★☆☆☆
Metal ★★★★★	UV Block ★★★★★
Faccade paint ★★★★★	PCO Protect ★★★★★
Fabric ★★★★★	Binding enhance ★★★★★
Wood ★★★★★	



<b>Special properties:</b> <ul style="list-style-type: none"> <li>• water-based primer for nano photocatalyst top coating</li> <li>• block UV</li> <li>• protect organic substrate from photocatalytic oxidization damage</li> <li>• enhance binding strength of top photocatalyst coating</li> <li>• Reduce Top Coat Dosage</li> </ul>	<b>Technical Information:</b>
	<b>Chemical description:</b> deactivated nano titanium dioxide sol <b>• appearance:</b> yellowish transparent liquid <b>Active matter content:</b>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• primer on acrylic paint surface to protect substrate</li> <li>• primer on stone to enhance photocatalyst coating binding</li> <li>• block UV coating</li> </ul>	<b>• TiO<sub>2</sub></b> 0,75% – 1,0% <b>• Water content:</b> 98% ± 1% <b>• Alcohol content:</b> 0%
	<b>Specification:</b>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• recommend air mix pressure spraying (HVLP)</li> <li>• brush for rough surface</li> <li>• dipping for irregular items</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual 50-100ml/m<sup>2</sup></li> </ul>	<b>• PH Value:</b> PH 7,5 - 10,0 <b>• primary particle size:</b> < 3 nm <b>• crystal structure:</b> TiO <sub>2</sub> Anatas / amorph <b>• agglomeration index:</b> < 10 cps <b>• density:</b> 1.0075-1.01 g/ml <b>• Viscosity:</b> 1.0050 mPa.s <b>• binding strength:</b> Exellent (Index 5)
	<b>• Drying time at 25C°</b>
<b>Transport Information</b> No Transport danger for Air, See, Highway and Rail, transportation of dangerous goods	Primary drying time: 30 minutes Final setting time: 30 days
	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI
<b>Storage stability:</b> 24 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	<b>Package:</b> 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

### Rough Surface Primer TiO<sub>2</sub> Undecoating Agent

Substrate Applicability:	Feature & Performance:
Stone ★★☆☆☆	Water purification ★☆☆☆☆
Tile ★★★★★	Odor Elimination ★☆☆☆☆
Glass ★★★★★	Super-hydrophilic ★☆☆☆☆
Plastic / Polymer ★★★★★	Anti-moss ★☆☆☆☆
Metal ★★★★★	UV Block ★★★★★
Faccade paint ★★★★★	PCO Protect ★★★★★
Fabric ★★★★★	Binding enhance ★★★★★
Wood ★★☆☆☆	



**Special properties:**

- water-based primer for nano photocatalyst top coating
- block UV
- protect organic substrate from photocatalytic oxidization damage
- enhance binding strength of top photocatalyst coating
- Reduce Top Coat Dosage

**Example of application:**

- primer on acrylic paint surface to protect substrate
- primer on stone to enhance photocatalyst coating binding
- block UV coating

**Usage instructions:**

- recommend air mix pressure spraying (HVLP)
- brush for rough surface
- dipping for irregular items

**Dosage instruction:**

- refer to relevant coverage data sheet or product manual  
50-100ml/m<sup>2</sup>

**Transport Information**

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

**Storage stability:**

24 months in closed container under 5-45°C, dark condition.  
Protect Soll in opened container from Oxigen.

**Avoid freezing!** storind above 5°C

**Technical Information:**

**Chemical description:** deactivated nano titanium dioxide sol

• **appearance:** yellow transparent liquid

**Active matter content:**

- **TiO<sub>2</sub>** 0,75% – 1,0%
- **Water content:** 98% ± 1%
- **Alcohol content:** 0%

**Specification:**

• <b>PH Value:</b>	PH 6.0-8.0
• <b>primary particle size:</b>	< 3 nm
• <b>crystal structure:</b>	TiO <sub>2</sub> Anatas / amorph
• <b>agglomeration index:</b>	< 10 cps
• <b>density:</b>	1.0075-1.01 g/ml
• <b>Viscosity:</b>	1.0050 mPa.s
• <b>binding strength:</b>	Strong (Index 3)

• **Drying time at 25°C**

Primary drying time:	30 minutes
Final setting time:	30 days

**Registration status:**

respectively its ingredients are listed in 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

**HD High Performance Nano TiO<sub>2</sub> Concentrate BET surface area 160m<sup>2</sup>/g**

<b>Special properties:</b> <ul style="list-style-type: none"> <li>• high concentration water-based nano TiO<sub>2</sub> sol</li> <li>• low agglomeration, super fine particle size</li> <li>• high stability &amp; quick gel feature</li> <li>• high surface area</li> <li>• high efficiency &amp; performance</li> </ul>	<b>Technical Information:</b> <table border="1"> <tr> <td><b>Chemical description:</b></td> <td>nano titanium dioxide sol</td> </tr> <tr> <td><b>• appearance:</b></td> <td>yellowish semi-transparent gel</td> </tr> <tr> <td colspan="2"><b>Active matter content:</b></td> </tr> <tr> <td><b>• TiO<sub>2</sub></b></td> <td>5%(±1%)</td> </tr> <tr> <td><b>• Water content:</b></td> <td>95% ± 1%</td> </tr> <tr> <td><b>• Alcohol content:</b></td> <td>0%</td> </tr> </table>	<b>Chemical description:</b>	nano titanium dioxide sol	<b>• appearance:</b>	yellowish semi-transparent gel	<b>Active matter content:</b>		<b>• TiO<sub>2</sub></b>	5%(±1%)	<b>• Water content:</b>	95% ± 1%	<b>• Alcohol content:</b>	0%								
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<b>Example of application:</b> <ul style="list-style-type: none"> <li>• cosmetic additive (UV block, whiten, anti-bacterial, anti-allergen)</li> <li>• paint additive (deodorization, anti-moss, air purification)</li> <li>• dye sensitized solar battery</li> <li>• air purification system (coat on reaction part, filter, duct)</li> </ul>	<b>Specification:</b> <table border="1"> <tr> <td><b>• PH Value:</b></td> <td>PH 7,5 - 10,0</td> </tr> <tr> <td><b>• primary particle size:</b></td> <td>&lt; 8 nm</td> </tr> <tr> <td><b>• crystal structure:</b></td> <td>TiO<sub>2</sub> Anatas</td> </tr> <tr> <td><b>• agglomeration index:</b></td> <td>4-10 cps</td> </tr> <tr> <td><b>• density:</b></td> <td>1.0075-1.01 g/ml</td> </tr> <tr> <td><b>• Viscosity:</b></td> <td>1.0050 mPa.s</td> </tr> <tr> <td><b>• binding strength:</b></td> <td></td> </tr> <tr> <td colspan="2"><b>• Drying time at 25C°</b></td> </tr> <tr> <td>Primary drying time:</td> <td>30 minutes</td> </tr> <tr> <td>Final setting time:</td> <td>30 days</td> </tr> </table>	<b>• PH Value:</b>	PH 7,5 - 10,0	<b>• primary particle size:</b>	< 8 nm	<b>• crystal structure:</b>	TiO <sub>2</sub> Anatas	<b>• agglomeration index:</b>	4-10 cps	<b>• density:</b>	1.0075-1.01 g/ml	<b>• Viscosity:</b>	1.0050 mPa.s	<b>• binding strength:</b>		<b>• Drying time at 25C°</b>		Primary drying time:	30 minutes	Final setting time:	30 days
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<b>Transport Information</b> <p>No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods</p>	<b>Package:</b> <p>1 Kg, 10 Kg, 25Kg, Plastic barrel with carton 30 Kg, 100 Kg, 200 Kg Plastic / Polymer barrel</p> <p>* refer to relevant (MSDS) Material Safety Data Sheet</p>																				
<b>Storage stability:</b> <p>24 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen.</p> <p><b>Avoid freezing!</b> storind above 5C°</p>																					

**HD High Performance High Concentrate Nano TiO<sub>2</sub> Sol BET surface area 160m<sup>2</sup>/g**

<b>Special properties:</b> <ul style="list-style-type: none"> <li>• high concentration water-based nano TiO<sub>2</sub> sol</li> <li>• flow agglomeration, super fine particle size</li> <li>• high stability &amp; quick gel feature</li> <li>• high surface area</li> <li>• high efficiency &amp; performance</li> </ul>	<b>Technical Information:</b> <b>Chemical description:</b> deactivated nano titanium dioxide sol <ul style="list-style-type: none"> <li>• <b>appearance:</b> White aqueous slurry</li> </ul> <b>Active matter content:</b> <ul style="list-style-type: none"> <li>• <b>TiO<sub>2</sub></b> 10%(±1.5%)</li> <li>• <b>Water content:</b> 90% ± 1%</li> <li>• <b>Alcohol content:</b> 0%</li> </ul>
<b>Example of application:</b> <ul style="list-style-type: none"> <li>• cosmetic additive (UV block, whiten, anti-bacterial, anti-allergen)</li> <li>• paint additive (deodorization, anti-moss, air purification)</li> <li>• dye sensitized solar battery</li> <li>• air purification system (coat on reaction part, filter, duct)</li> </ul>	<b>Specification:</b> <ul style="list-style-type: none"> <li>• <b>PH Value:</b> PH 7,5 - 10,5</li> <li>• <b>primary particle size:</b> &lt; 8 -11 nm</li> <li>• <b>crystal structure:</b> TiO<sub>2</sub> Anatas</li> <li>• <b>agglomeration index:</b> &lt; 20-30 cps</li> <li>• <b>density:</b> 1.08-1.11 g/ml</li> <li>• <b>Viscosity:</b> 1.0050 mPa.s</li> <li>• <b>BET surface area:</b> BET 240 m<sup>2</sup>/g</li> </ul> <ul style="list-style-type: none"> <li>• <b>Drying time at 25C°</b> <ul style="list-style-type: none"> <li>Primary drying time: 30 minutes</li> <li>Final setting time: 30 days</li> </ul> </li> </ul>
<b>Usage instructions:</b> <ul style="list-style-type: none"> <li>• high speed cutting and mix up</li> <li>• roller print</li> <li>• Spinning coating</li> <li>• Dipping coating</li> <li>• air mix pressure spraying</li> </ul> <b>Dosage instruction:</b> <ul style="list-style-type: none"> <li>• refer to relevant coverage data sheet or product manual</li> </ul>	<b>Registration status:</b> respectively its ingredients are listed in following chemical inventories: CAS, EINECS, TSCA, AICS, CEPA, MITI <b>Package:</b> 1 Kg, 10 Kg, 25Kg, Plastic barrel with carton 30 Kg, 100 Kg, 200 Kg Plastic / Polymer barrel * refer to relevant (MSDS) Material Safety Data Sheet
<b>Transport Information</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	
<b>Storage stability:</b> 12 months in closed container under 5-45C°, dark condition. Protect Soll in opened container from Oxigen. <b>Avoid freezing!</b> storind above 5C°	

**HD High Performance High Concentrate Nano TiO<sub>2</sub> Sol BET surface area 240 m<sup>2</sup>/g**

<b>Special properties:</b> <ul style="list-style-type: none"> <li>• high concentration water-based nano TiO<sub>2</sub> sol</li> <li>• flow agglomeration, super fine particle size</li> <li>• high stability &amp; quick gel feature</li> <li>• high surface area</li> <li>• high efficiency &amp; performance</li> </ul>	<b>Technical Information:</b> <table border="1"> <tr> <td><b>Chemical description:</b></td> <td>Nano titanium dioxide slurry</td> </tr> <tr> <td><b>• appearance:</b></td> <td>White aqueous slurry</td> </tr> <tr> <td colspan="2"><b>Active matter content:</b></td> </tr> <tr> <td><b>• TiO<sub>2</sub></b></td> <td>15 % (±2 %)</td> </tr> <tr> <td><b>• Water content:</b></td> <td>75 % +- 1%</td> </tr> <tr> <td><b>• Alcohol content:</b></td> <td>0%</td> </tr> </table>	<b>Chemical description:</b>	Nano titanium dioxide slurry	<b>• appearance:</b>	White aqueous slurry	<b>Active matter content:</b>		<b>• TiO<sub>2</sub></b>	15 % (±2 %)	<b>• Water content:</b>	75 % +- 1%	<b>• Alcohol content:</b>	0%								
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<b>Transport</b> No Transport danger for Air, Sea, Highway and Rail, transportation of dangerous goods	<b>Package:</b> <p>1 Kg, 10 Kg, 25Kg, Plastic barrel with carton  30 Kg, 100 Kg, 200 Kg Plastic / Polymer barrel</p> <p>* refer to relevant (MSDS) Material Safety Data Sheet</p>																				
<b>Storage stability:</b> 12 months in closed container under 5-45°C, dark condition. Protect Slurry in opened container from Oxygen. <b>Avoid freezing!</b> storind above 5°C																					

### Titandioxide Nano powder

high performance visible light response anatase Nano TiO<sub>2</sub> based photocatalytic powder form catalyst.



#### Special properties:

- nano scale
- high surface area
- high efficiency & performance

#### Example of application:

- paint additive
- cement/concrete additive
- pavement additive

#### Typical application:

- NO<sub>x</sub>, VOCs decomposition
- air purification
- anti-algae
- self-cleaning

#### Usage instructions:

- high speed cutting and mix up

#### Dosage instruction\*

1-1,5%

\* The above information is just typical data, practical test is necessary

#### Transport:

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

#### Storage stability:

24 Monate im geschlossenen Originalbehälter.  
Dunkel, Kühl und Trocken lagern.

#### Technical Information:

**Chemical description:** Nano Titandioxid-Pulver

• **appearance:** White powder

#### Active matter content:

TiO<sub>2</sub> > 99 % (±1%)

• **Water content:**

• **Alcohol content:**

#### Spezifikation:

• **PH Value:**

-

• **primary particle size:**

< 10 - 20 nm

• **crystal structure:**

TiO<sub>2</sub> Anatase

• **specific gravity:**

4,26 g/ml

• **Boiling point:**

2750C°

• **melting point:**

1855C°

• **BET surface area:**

150 m<sup>2</sup>/g.

#### Registrationstatus:

Produkt und/oder Inhaltsstoffe sind gelistet bei:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

#### Package:

5kg, 10kg, 25 kg, plastic or paper bag, carton barrels

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

#### Nitrogen Doped Nano Titanium Dioxide Powder

This titanium dioxide is nitrogen-doped



#### Special properties:

- nano scale
- high surface area
- high efficiency & performance
- leading nitrogen doped technology (visible light response)

#### Example of application:

- paint additive
- cement/concrete additive
- pavement additive

#### Typical application:

- NO<sub>x</sub>, VOCs decomposition
- air purification
- anti-algae
- self-cleaning

#### Usage instructions:

- high speed cutting and mix up

#### Dosage instruction\*

1-1,5%

\* The above information is just typical data, practical test is necessary

#### Transport:

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

#### Storage stability:

24 months in original container under cool, dark condition

#### Technische Informationen:

**Chemical description:** Nano Titandioxid-Pulver

• **appearance:** Light Brown powder

#### Aktives Material in Lösung:

TiO<sub>2</sub> > 99 % (±1%)

• **Water content:**

• **Alcohol content:**

#### Spezifikation:

• **PH Value:**

-

• **primary particle size:**

10 - 20 nm

• **crystal structure:**

TiO<sub>2</sub> Anatase

• **specific gravity:**

4,26 g/ml

• **Boiling point:**

2750C°

• **melting point:**

1855C°

• **BET surface area:**

50 m<sup>2</sup>/g.

#### Registrationstatus:

Produkt und/oder Inhaltsstoffe sind gelistet bei:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

#### Package:

5kg, 10kg, 25 kg, plastic or paper bag, carton barrels

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

### Silver Doped Nano Titanium Dioxide Powder

This titanium dioxide is coated by 5% with nano silver



#### Special properties:

- nano scale
- high surface area
- high efficiency & performance
- nano silver doped technology (high anti-bacterial performance)

#### Example of application:

- paint additive
- cement/concrete additive
- pavement additive

#### Typical application:

- anti-bacteria
- anti-algae
- self-cleaning

#### Usage instructions:

- high speed cutting and mix up

#### Dosage instruction\*

1-1,5%

\* The above information is just typical data, practical test is necessary

#### Transport:

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

#### Storage stability:

24 months in original container under cool, dark condition

#### Technische Informationen:

**Chemical description:** Nano Titandioxid-Pulver

• **appearance:** white powder

#### Aktives Material in Lösung:

**TiO<sub>2</sub> > 95 % AG 5% (±1%)**

• **Water content:**

• **Alcohol content:**

#### Spezifikation:

• **PH Value:**

-

• **primary particle size:** 300 nm (±100 )

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

• **specific gravity:** 4,26 g/ml

• **Boiling point:** 2750C°

• **melting point:** 1855C°

• **BET surface area:** 50 m2/g.

#### Registrationstatus:

Produkt und/oder Inhaltsstoffe sind gelistet bei:  
CAS, EINECS, TSCA, AICS, CEPA, MITI

#### Package:

5kg, 10kg, 25 kg, plastic or paper bag, carton barrels

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



## EcoWays

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