

The application of TitanShield® Products



Cleaning makes the coating job easier and enhances the quality of the coating

- Clean the surface thoroughly.
- Choose the suitable titanium dioxide solution
- Select proper tools

Coating

- In case of using a primer as a pre-coat to protect the surface of organic compound products, the primer needs to be coated first and then the TitanShield coating as a dual layer.
- The recommended distance between substrate and spray gun is 20 to 30 cm.
- Execute the spray coating as cross-coat as described in the drawing. Observe the recommended product dosage.

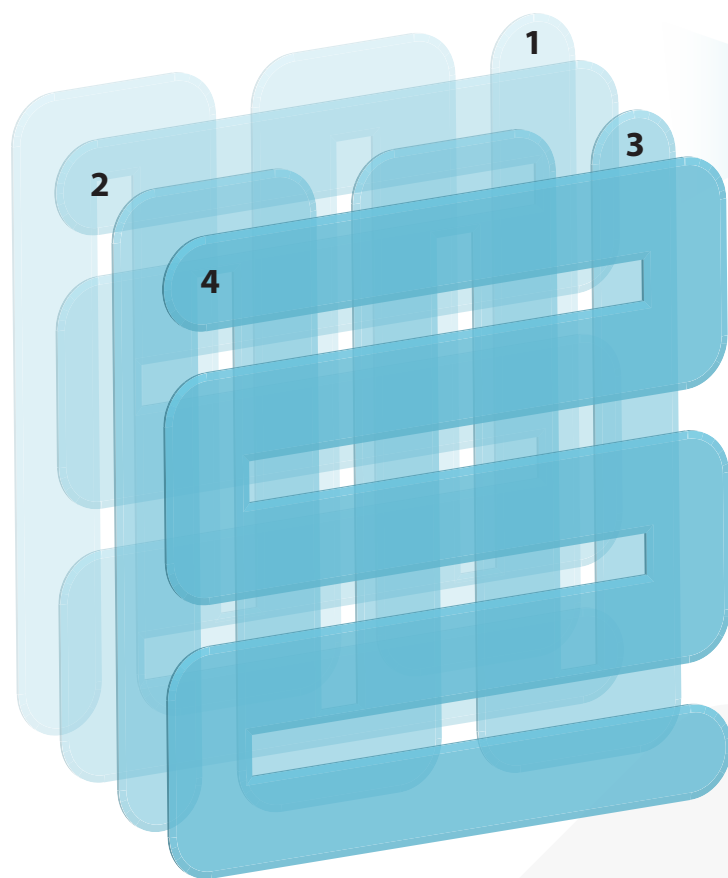
Drying

- The coating is dust dry after 30 minutes.
- Three to twelve hours are necessary to fix the Photocatalytic TiO₂-film on the surface permanently. The duration depends on the chosen product and the substrate.
- The surface is resilient after 12 to 14 days. The coating reaches maximum hardness after about 30 days.
- High temperature drying, reduces the fixing time
- In case of forced drying or heating, it should be conducted below 600 °C. When the TiO₂ film is heated to more than 800 °C, the photocatalytic activity is decreased.
- When you have coated some area mistakenly, wipe off the TiO₂ immediately.

For spray-application, we recommend the exclusive use of High Volume Low Pressure systems. We have modified and certified the system by GRACO, to fit our TitanShield® products

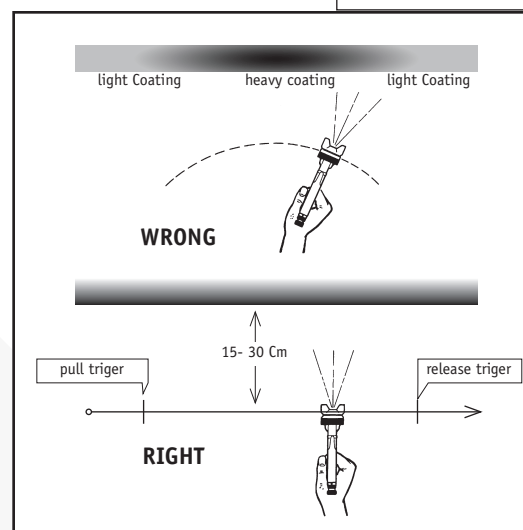
The following product series can refer to this dosage guide:

TSV
TSS
TSU
TSP
TSK



2-4

1-3



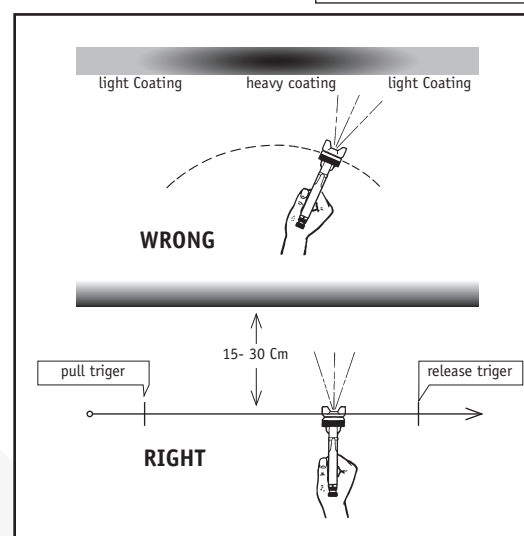
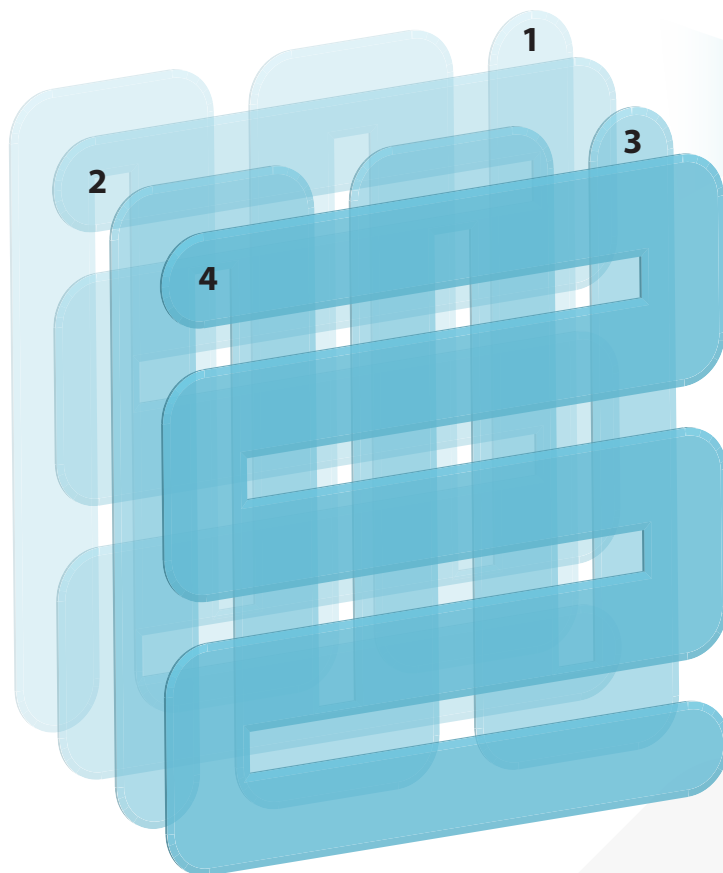
	Economical	Normal	Maximal	Surface
Deodorization and Air Purification Purpose	92m ² / Liter	70 m ² / Liter	37 m ² / Liter	Non-porous surfaces
	11 ml / m ²	14 ml / m ²	27 ml / m ²	
	55 m ² / Liter	32 m ² / Liter	13 m ² / Liter	porous surfaces
	18 ml / m ²	31 ml / m ²	77 ml / m ²	
Antibacterial Purpose	37 m ² / Liter	18 m ² / Liter	9 m ² / Liter	Non-porous surfaces
	27 ml / m ²	56 ml / m ²	111 ml / m ²	
	14 m ² / Liter	9 m ² / Liter	5 m ² / Liter	porous surfaces
	71 ml / m ²	111 ml / m ²	200 ml / m ²	

Notes: The data above is only for reference. The effective dosage of photocatalyst will be affected by the following factors.

- 1) The treated surface feature: smoothness, infiltration, density
- 2) Working environment: humidity, wind speed, temperature
- 3) Spray skill, spray distance, sprayer nozzle specification, air pressure, etc...

The following product series can refer to this dosage guide:

TSA
TSK



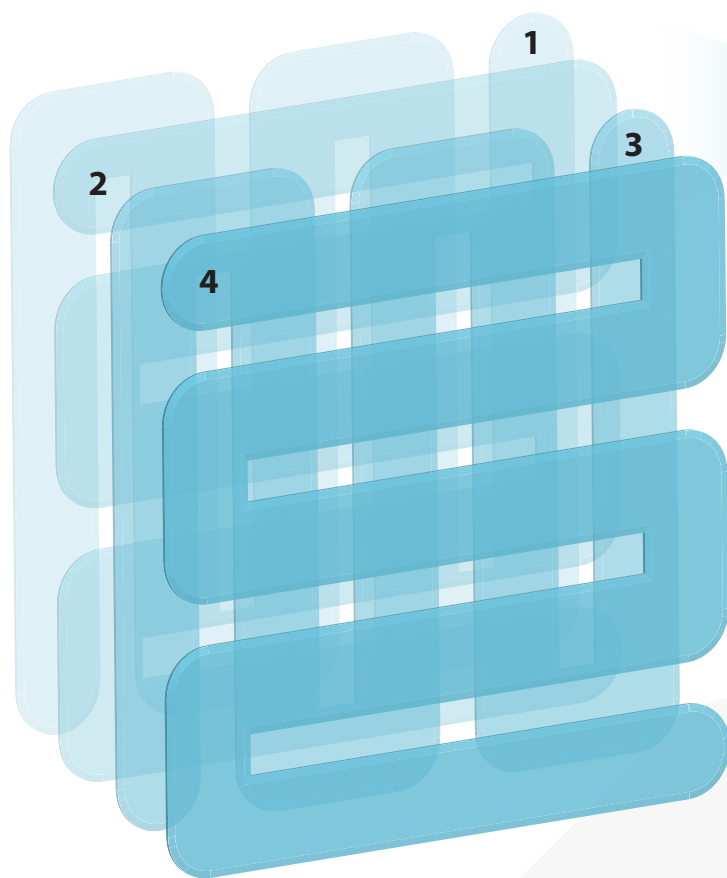
Surface	Economical quantity	Normal quantity	Maximal quantity
Aluminium, Steel, Plastic, Smooth Tile	40 m ² / Liter	25 m ² / Liter	15 m ² / Liter
	25 ml / m ²	40 ml / m ²	67 ml / m ²
Marble, Granite (Polished)	25 m ² / Liter	16 m ² / Liter	8 m ² / Liter
	40 ml / m ²	63 ml / m ²	120 ml / m ²
Marble, Granite (Rough) Limestone, Beton	17 m ² / Liter	11 m ² / Liter	6 m ² / Liter
	60 ml / m ²	90 ml / m ²	180 ml / m ²
Rough Tile	20 m ² / Liter	14 m ² / Liter	6 m ² / Liter
	50 ml / m ²	72 ml / m ²	160 ml / m ²
Paint	30 m ² / Liter	20 m ² / Liter	10 m ² / Liter
	33 ml / m ²	50 ml / m ²	100 ml / m ²

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- 3) Spray skill, spray distance, sprayer nozzle specification, air pressure, etc...

The following product series can refer to this dosage guide:

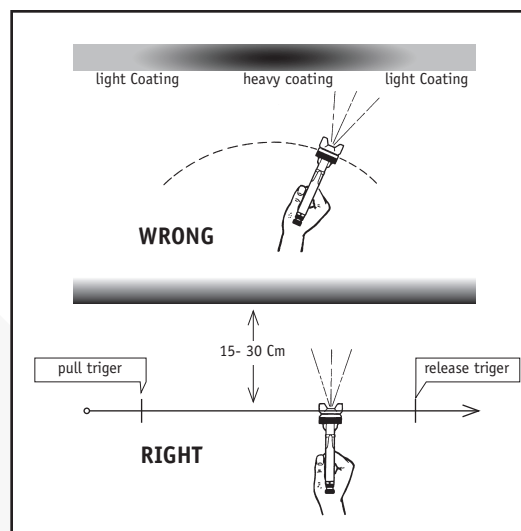
TSG
TSK
SolarCoat



2-4



1-3



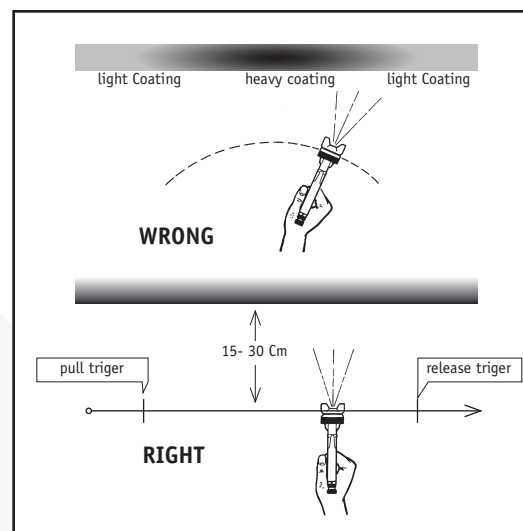
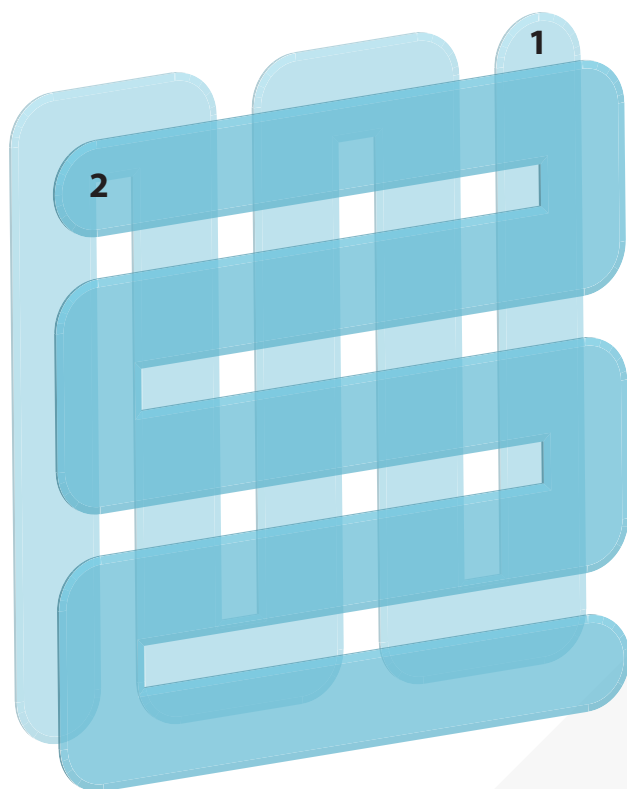
Quantity	Economical	Normal	Maximal	Surface
	40 m² / Liter	25 m² / Liter	15 m² / Liter	Smooth Surface
	25 ml / m²	40 ml / m²	67 ml / m²	
	30 m² / Liter	15 m² / Liter	10 m² / Liter	Rough Surface
	33 ml / m²	67 ml / m²	100 ml / m²	

Notes: The data above is only for reference. The effective dosage of photocatalyst will be affected by the following factors.

- 1) The treated surface feature: smoothness, infiltration, density
- 2) Working environment: humidity, wind speed, temperature
- 3) Spray skill, spray distance, sprayer nozzle specification, air pressure, etc...

The following product series can refer to this dosage guide:

TSB



Quantity	Economical	Normal	Maximal	Surface
	70 m ² / Liter	46 m ² / Liter	23 m ² / Liter	Non-porous Surface
	14 ml / m ²	22 ml / m ²	43 ml / m ²	
	55 m ² / Liter	32 m ² / Liter	13 m ² / Liter	Porous Surface
	18 ml / m ²	31 ml / m ²	77 ml / m ²	

Notes: The data above is only for reference. The effective dosage of photocatalyst will be affected by the following factors.

- 1) The treated surface feature: smoothness, infiltration, density
- 2) Working environment: humidity, wind speed, temperature
- 3) Spray skill, spray distance, sprayer nozzle specification, air pressure, etc...



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