Application of

TitanShield®SolarCoat

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

1. Proper treatment on the target surface before coating should be done for better coated performance and long life time.
2. Please clean and get rid of dust or oil ingredient from the target surface with warm neutral detergent or water or Cerium oxide sol.
3. Keep the target surface in good condition before coating, Scratch or mark on the target surface can make defect dot or area after coating.

Coating Equipment recommended

- For mass production, commercial coating line is available. Pre-heater zone (60~70C°), Spray machine, Curing Zone (120 - 200C°)

- HVLP coating(High Volume Low Pressure) or low air pressure spray type equipments are recommendable.
  Spray Nozzle(Orifice) Size : ~1.0mm recommendable
  Air Pressure : 2- 3 atm

Coating Process

- Make thin and even coating, because the thick coating may decrease surface adhesion capability.
- If needed, pre-heat the glass up to 60~70C°.
- For coating on glass, 3- 4 times of spray coating is recommendable.
- When spraying, keep the sprayer nozzle apart about 10~15 cm and 90 degrees from the target surface. Make the sprayed surface even considering the coated area by 5~10cm per spraying pattern width.
- Recommended drying/curing time is 15 minutes at 150C°.
- Coating amount is 40~60ml/m2 of TitanShield®SolarCoat. Amount is adjustable according to coating condition and method.

- Keep the distance from the target surface suggested and spray with the width of spray pattern width for good product performance.
- Avoid diluting with other materials or mix with another product.
  Inappropriate handling may deteriorate product quality and precipitated.
- Do not apply when the air temperature is below 5C° or rain is forecasted within 12 hours.

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

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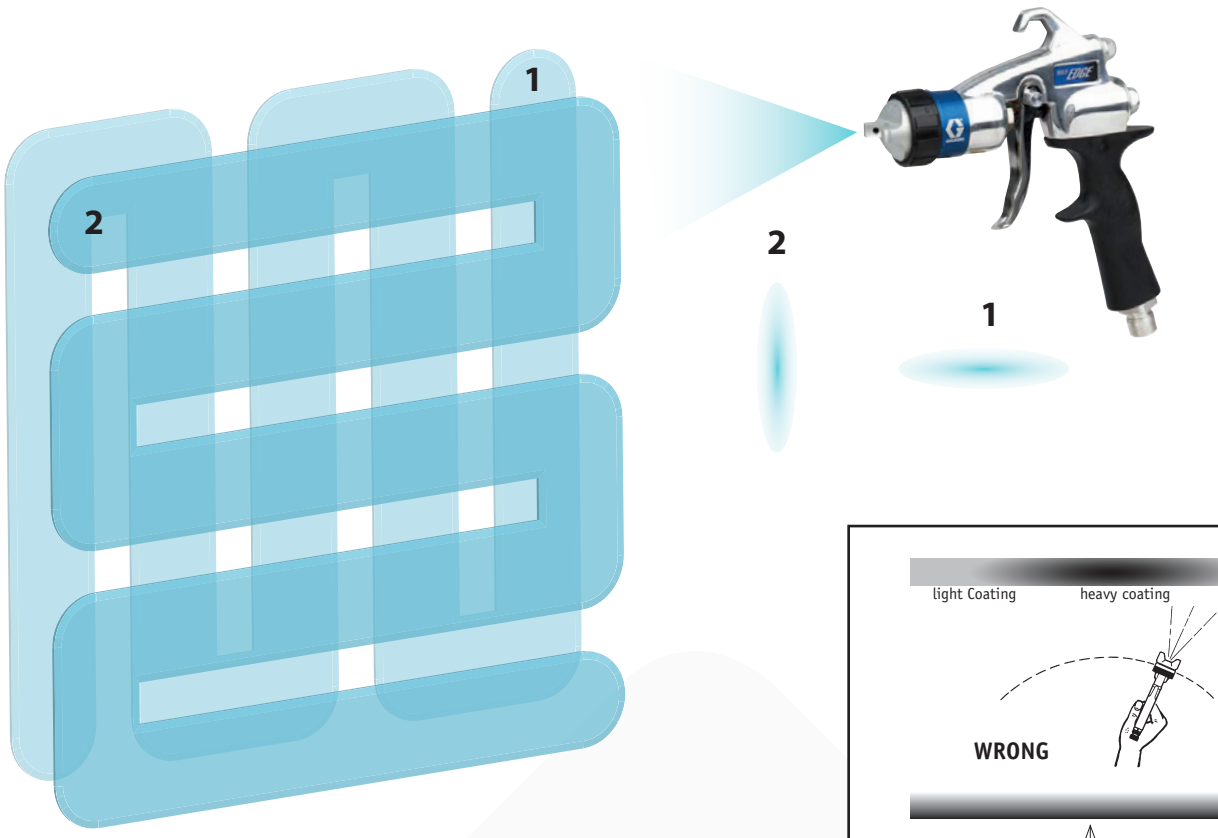

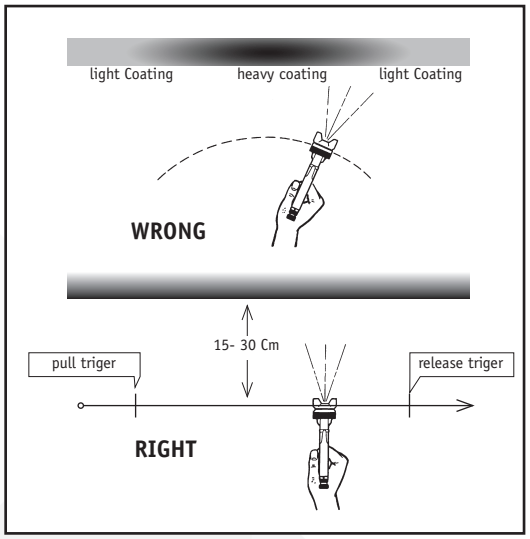

Quantity	Economical	Normal	Maximal	Surface
	40 m² / Liter	25 m² / Liter	15 m² / Liter	Glas Surface
	25 ml / m²	40 ml / m²	67 ml / m²	

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...

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TITAN Shield®

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