

AT 5003 - ALPHASLICK GREEN

NANO-CERAMIC COATING

TECHNICAL DATA SHEET

AT-5003 AlphaSlick Green is a VOC exempt, environmentally friendly solvent based hydrophobic coatings specifically formulated for maximum performance on greenhouses and solar panels. AT-5003 has excellent adhesion, UV resistance and durability. It creates a micro-thin, super-slick hydrophobic surface that prevents the adhesion of ice, dirt, debris, mold, snow, etc. from treated surfaces. This creates a self-cleaning surface that increases performance while minimizing ongoing maintenance. AT-5003 has been specifically formulated for use on greenhouses and solar panels. In addition to its self-cleaning properties, AT-5003 increases the amount of solar energy that passes through glass and clear surfaces.

Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	16-18 sec. #2 Zahn
Percent of Solids (%)	16
V.O.C	Exempt per CFR 51.1 / Regulation 8
RoHS	Compliant
REACH	Compliant
Halogens	None
Thermal Stability (cured)	1200°F / 648.8°C
Conical Bond (1/8" Mandrel) (ASTM D522-93a)	Passed
Cross Cut Adhesion (ASTM D3359)	5B
Coefficient of Friction (ASTM D2047)	0.03μ
Specific Gravity (ASTM D891-09)	0.889
Pencil Hardness (ASTM D3363)	8h
Odor (liquid)	Slight Solvent
Odor (cured)	None

Drying and Coverage Rate

Average Applied Dry Film Thickness	2 to 5 microns
Estimated Coverage Rate (@ 3 microns)	2,170 ft ² (200 m ²) per gallon
Dry to Touch Time (@ 77°F / 25°C) *Warm airflow and/or exposure to sunlight will reduce drying time	15 – 25 minutes (average)
Ambient Cure (Full Properties) *Exposure to warmer sunny days will help speed the cure process	5 days

Key Performance Properties

- Hydrophobic, water repellent surface.
- Self cleaning.
- Increases solar efficiency.
- Anti-icing.
- UV resistance.
- Excellent adhesion. Creates intrinsic bond with the substrate.
- Non-flammable.
- Clear.
- Smooth.
- Excellent coverage rate.
- Ambient cure, short dry time.
- Environmentally friendly. VOC exempt. Will not harm marine life.
- RoHS and REACH compliant.

Common Applications

- Greenhouses
- Solar panels

Supplemental Information

The AT-5000 Series includes multiple high performance hydrophobic protective coatings designed for different end uses and a variety of slick, wet grip and textured finishes. Contact your AlphaTek representative to find the best coating for your requirements.