

# AT 5002 - ALPHASLICK EXTREME

## NANO-CERAMIC COATING

## TECHNICAL DATA SHEET

AT-5002 AlphaSlick Extreme is a high performance nano-ceramic coating that creates a hard, super slick, long lasting hydrophobic clear finish. AT-5002 significantly reduces drag on treated surfaces in water, air or other mediums. This will improve energy efficiency, speed, lift and maneuverability of both marine vehicles and aircraft. Treated surfaces also become self-cleaning and will repel water, ice, snow, dirt, marine organisms, etc. AT-5002 is extremely durable and provides excellent UV protection. Surfaces are left with a super glossy finish. AT-5002 is an inert (benign) material that is safe for use in marine environments.

Proudly manufactured in the USA.

### Technical Data

<b>Color</b>	Clear
<b>Viscosity</b>	16-18 sec. #2 Zahn
<b>Percent of Solids (%)</b>	32
<b>V.O.C</b>	Exempt per CFR 51.1 / Regulation 8
<b>RoHS</b>	Compliant
<b>REACH</b>	Compliant
<b>Halogens</b>	None
<b>Thermal Stability (cured)</b>	1200°F / 648.8°C
<b>Conical Bond (1/8" Mandrel) (ASTM D522-93a)</b>	Passed
<b>Cross Cut Adhesion (ASTM D3359)</b>	5B
<b>Coefficient of Friction (ASTM D2047)</b>	0.03μ
<b>Specific Gravity (ASTM D891-09)</b>	0.889
<b>Pencil Hardness (ASTM D3363)</b>	7h+
<b>Odor (liquid)</b>	Slight Solvent
<b>Odor (cured)</b>	None

### Drying and Coverage Rate

<b>Average Applied Dry Film Thickness</b>	5 to 15 microns
<b>Estimated Coverage Rate (@ 5 microns)</b>	2,610 ft <sup>2</sup> (240 m <sup>2</sup> ) per gallon
<b>Dry to Touch Time (@ 77°F / 25°C)</b> *Warm airflow and/or exposure to sunlight will decrease drying time	15 – 25 minutes (average)
<b>Ambient Cure (Full Properties)</b>	5 days

### Key Performance Properties

- Hydrophobic, water repellent surface.
- Significantly reduces friction & drag in both air and water.
- Self cleaning.
- Reduced maintenance.
- Anti-icing.
- UV resistance.
- Clear.
- Excellent adhesion. Creates intrinsic bond with the substrate.
- Durable.
- Non-flammable.
- Excellent coverage rate.
- Ambient cure, short dry time.
- Application by spray or mohair roller.
- Environmentally friendly. VOC exempt. Will not harm marine life.
- RoHS and REACH compliant.

### Common Applications

- Boats hulls (seal over gel-coat)
- Wind turbine blades
- Aircraft exteriors
- Anti-graffiti
- Scuba propulsion vehicles

### Supplemental Information

Note that this product is available in a variety of formulations for application in varying weather conditions:

- AT-5002 "standard dry" solvent blend formulation
- AT-5002-SD slower dry solvents
- AT-5002-ESD extra slow dry solvents