

# AT 5004 - ALPHASLICK ULTRA

## NANO-CERAMIC COATING

## TECHNICAL DATA SHEET

AT-5004 AlphaSlick Ultra is a VOC exempt, environmentally friendly solvent hydrophobic coating specifically formulated for maximum performance on rubber, PVC, Hypalon®, and similar surfaces. AT-5004 has excellent adhesion, UV resistance and durability. It creates a micro-thin, super-slick hydrophobic surface that prevents the adhesion of ice, dirt, and marine organisms while also significantly reducing friction and drag in the water. The reduction of drag improves performance, fuel efficiency and maneuverability. AT-5004's nano-ceramic formulation creates a covalent bond to the substrate making it extremely durable for long lasting performance. AT-5004 is an inert (benign) material when cured and will not harm marine life or waterways.

Proudly manufactured in the USA.

### Technical Data

<b>Color</b>	Clear
<b>Viscosity</b>	16-18 sec. #2 Zahn
<b>Percent of Solids (%)</b>	19
<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>	8h
<b>Odor (liquid)</b>	Slight Solvent
<b>Odor (cured)</b>	None

### Drying and Coverage Rate

<b>Average Applied Dry Film Thickness</b>	2 to 5 microns
<b>Estimated Coverage Rate (@ 3 microns)</b>	2,580 ft <sup>2</sup> (240 m <sup>2</sup> ) per gallon
<b>Dry to Touch Time (@ 77°F / 25°C) *Warm airflow will reduce time required drying time</b>	15 – 25 minutes (average)
<b>Ambient Cure (Full Properties) *Exposure to direct sunlight or warmer ambient air will reduce time required to reach a fully cross-linked cure</b>	24 hours

### Key Performance Properties

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

### Common Applications

- Boats
- Inflatable rafts
- Kayaks
- Scuba equipment
- Scuba scooters
- Small rudders
- Water toys
- Small props
- Swim fins

### 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.