



# AT 5002 - ALPHASLICK EXTREME

NANO-CERAMIC COATING

APPLICATION INSTRUCTIONS

## 1. PRODUCT DESCRIPTION

**AT-5002** 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 improves 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.

## 2. SURFACE PREPARATION

- Normally used as a top-coat over gel-coat or other rigid/hard surfaces.
- Intended surface should be clean and free from oils, dirt and any other previous contaminants.

## 3. APPLICATION

- As with any new material, always test application and finished properties on a low value test article or panel before working on valuable surfaces.
- Only one coat is generally required to seal the surface for most applications.
- Desired dry film thickness is 5-15 microns.
- **Hand wipe:** Apply coating with a dampened mohair roller (best) or lint free cloth squeegee. Use a straight linear motion to apply the coating to the surface. Slightly overlap “wet on wet” during application to ensure seamless coverage.
- **Spray application:** Coating can also be spray applied using standard commercial sprayer. Ensure that personnel are qualified and experienced with the specific sprayer being utilized.
- Start application at one corner or edge of the surface intended to be coated (e.g. from top to bottom or stern to bow).
- Allow coating to dry to the touch (approximately 25 – 30 minutes at ambient temperatures) in a dust free environment.

## 7. DRYING & CURING TIMES

<b>Solids</b>	32%
<b>Drying Time</b>	Dry to the touch in approximately 25-30 minutes at ambient temperatures. Warmer airflow will accelerate dry time.

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<b>Curing Time</b>	Useable ambient cured properties are obtained in approximately 12-24 hours after application at 79°F /28°C or higher temperature. Full cure (cross-linked) in 5 days. Warmer temperatures will result in a faster cure. Coated application should not be submerged in water until full cure has been achieved (5 days).
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### 8. COVERAGE RATE

- Approximately 1,300 square feet per gallon (32 square meters per liter) at dry film thickness of 10 microns.

### 9. RELATED PRODUCTS

- 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
- The SD and ESD formulations provide maximum performance but require longer drying and curing time. Contact your ALPHATEK representative to determine the product best suited for your specific project or application.

### 10. STORAGE STABILITY & SHELF LIFE

The shelf life is one year when stored in the original, unopened container. Store containers in a well-ventilated and covered area away from extreme heat and moisture. Contact your ALPHATEK representative if you have any questions about the products or its uses.

### 11. SAFETY

Refer to the Safety Data Sheet for this product prior to use.