

AT 1300 - PROTEK SERIES

NANO-CERAMIC COATING

APPLICATION INSTRUCTIONS

1. PRODUCT DESCRIPTION

AT 1300 is an electrically non-conductive coating that offers unparalleled protection of electronic components from heat, moisture, and other contaminants. The AT 1300 Series has been specifically formulated for use on electronics. All AT 1300 Series coatings are fluoropolymer free. The coatings are easy to apply and offer best in class moisture protection. The AT 1300 Series have been specifically designed to quickly and efficiently conduct heat making them the perfect coating for systems requiring thermal energy to be transmitted away from vulnerable components. Available in clear and black.

These application instructions are applicable to ALL AT 1300 coatings.

2. SURFACE PREPARATION

- 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 varies from 2 – 25 microns depending on the specific AT 1300 coating being used. Refer to the relevant TDS for the appropriate dry film thickness for the product that you are using.
- Coating may be applied by spray, wipe, or dip.
- Masking of board input and output connections is recommended.
- Apply coating in a manner appropriate for part shape and the application method used.
- Cover all of the intended surface. Be sure that there is a thin, glossy, wet film on all of the desired surface
- **More is not better.** If coating is over-applied or heated prior to being dry to the touch it may become sticky or gummy. In this case, remove the sticky material with MEK or similar solvent, re-read application instructions and re-apply..
- Allow to dry under ambient conditions until dry to the touch. Warm (less than 110°F/43°C) free air flow will speed-up the drying process.
- Once dry to the touch, coated parts may be handled, stacked, packaged, assembled, tested, and heated without risk of bonding to other surfaces (e.g. paper tissue, bubble wrap/bags, etc.).
- Use appropriate care to avoid scraping the coating from the surface during initial handling.
- Note: re-sealing is possible with AT 1300 and AT 1301. Re-sealing is not recommended with any of the AT 1300 Series products.



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7. DRYING & CURING TIMES

Drying Time	Dry to the touch in approximately 15-25 minutes at ambient temperatures. Warmer airflow will accelerate dry time. Higher solid versions of AT 1300 will take longer to dry.
Curing Time	Full ambient cure properties are obtained approximately 12-24 hours after application (at room temperature). Full cure (cross-linked) in 5 days. Warmer temperatures will result in a faster cure.

8. COVERAGE RATE

- Coverage rates vary from 460 - 3800 square feet per gallon (11.2 – 93 square meters per liter) depending on the specific product used and the prescribed application thickness. Refer to the relevant product TDS for specific guidance.

9. 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.

10. SAFETY

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