

AT 510 - ALPHATEK PRIMER

NANO-CERAMIC COATING

TECHNICAL DATA SHEET

AT 510 - AlphaTek Primer is a VOC exempt, solvent based, hybrid-ceramic clear primer that provides adhesion in a wide variety of demanding environments. It adheres to almost anything and almost anything will adhere to it. AT 510 can be used as a primer on almost any substrate or as an intra-coating adhesive. AT 510 is tough, durable and adheres to almost any surface. This coating is suitable for operating temperatures of up to 148°F (64.8°C).

Proudly manufactured in the USA.

Technical Data

Color	Colorless Liquid
Viscosity (ASTM D1084B)	1.0 cps @ 74°F (23°C)
Percent of Solids (%)	<38
V.O.C	Exempt per CFR 51.1 / Regulation 8
RoHS	Compliant
REACH	Compliant
Halogens	None
Thermal Stability. Resin (cured)	1200°F + (648.8°C +)
Conical Bond (1/8" Mandrel) (ASTM D522-93a)	Passed
Cross Cut Adhesion (ASTM D3359)	5B
Specific Gravity (ASTM D891-09)	0.810
Odor (liquid)	Slight Solvent
Odor (cured)	None

Drying and Coverage Rate

Average Applied Dry Film Thickness	1 to 3 micron
Estimated Coverage Rate (@3 microns)	5,200 ft ² (480 m ²) per gallon
Dry Time (@ 65-70°F / 18-21°C)	5 – 10 minutes

Key Performance Properties

- Excellent adhesion to almost any surface.
- Creates an intrinsic covalent bond with most substrates.
- Compatible with most topcoats.
- Remains flexible.
- Smooth, clear finish.
- High operating temperature.
- Effective for both hot and cold applications.
- Thin application.
- Excellent coverage rate.
- Easily applied by wipe or spray.
- Ambient cure, short dry time.
- Environmentally friendly. VOC exempt.
- RoHS and REACH compliant.

Common Applications

- As a primer to provide adhesion for a topcoat, particularly when the substrate cannot be cleaned of all contaminants prior to coating (e.g. waxes or silicones) or the desired topcoat lacks adhesion.
- Intra-coating adhesive to allow the build of multiple layers of other coating products.

Supplemental Information

- For higher temperature applications, use AT 520.
- AT 510 is compatible with AlphaTek's complete line of Nano-Ceramic Clear and Color Coatings as well as most commercial coatings found in the market. Contact your AlphaTek representative for more information.

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