

# AT 520 – ALPHATEK PRIMER EXTREME

## NANO-CERAMIC COATING

## TECHNICAL DATA SHEET

AT 520 - AlphaTek Primer Extreme is a high performance primer specifically formulated for ultra high temperature applications (up to 1200°F/648°C). It is a VOC exempt, solvent-based primer that provides adhesion in a wide variety of demanding environments. It adheres to almost anything and almost anything will adhere to it. AT 520 can be used as a primer on almost any substrate or as an intra-coating adhesive. AT 520 has been formulated for a broad range of uses including automotive exhaust pipes and direct flame contact.

Proudly manufactured in the USA.

### Technical Data

<b>Color</b>	<b>Colorless Liquid</b>
<b>Viscosity (ASTM D1084B)</b>	1.0 cps @ 74°F (23°C)
<b>Percent of Solids (%)</b>	<38
<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. Resin (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>Specific Gravity (ASTM D891-09)</b>	0.810
<b>Odor (liquid)</b>	Slight Solvent
<b>Odor (cured)</b>	None

### Drying and Coverage Rate

<b>Average Applied Dry Film Thickness</b>	<b>1 to 3 microns</b>
<b>Estimated Coverage Rate (@3 microns)</b>	5,260 ft <sup>2</sup> (480 m <sup>2</sup> ) per gallon
<b>Dry Time Before Top Coat (@ 65-70°F / 18-21°C)</b>	5 – 10 minutes (Average)
<b>Dry Time (@ 120°F / 48.89°C)</b>	30 seconds

### Key Performance Properties

- Excellent adhesion to almost any surface
- Creates an intrinsic covalent bond with most substrates.
- Easy to top coat.
- Remains flexible.
- Smooth, semi-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 help the build up of multiple layers of other coating products.

### Supplemental Information

AT 520 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.