



AT 1181 - ALPHAPROOF SB

NANO-CERAMIC COATING

APPLICATION INSTRUCTIONS

1. PRODUCT DESCRIPTION

AT 1181 is a VOC exempt, environmentally friendly solvent based coating that creates an extremely water repellant hydrophobic surface. Treated fabrics will shed water quickly while remaining breathable. AT 1181 is UV resistant and has no residual odor. Treated fabrics remain very soft and flexible. AT 1181 bonds with fibers to create long-term durable performance and enhanced tensile strength. Treated fibers are covered in a self-lubricating dry film that reduces friction to improve performance and reduce wear. AT 1181 is non-flammable and will decrease flame spread in treated fabrics.

2. SURFACE PREPARATION

- Be sure that the substrate material is clean and free of debris, oils or other contaminants that may prevent the product from saturating into the fabric.

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.
- Mix or shake the container to insure product is mixed thoroughly.
- Ambient temperature should be above 60°F (15°C) during application.
- Application may be done with spray, dip, brush or wipe. Select the method that best fits the size, shape and composition of the material that is being coated. Ensure the substrate is well wetted/saturated with the coating regardless of application method.
- Place coated fabric in an open environment and allowed to dry.
- Once cured, a second coat may be added if added protection is desired.

7. DRYING & CURING TIMES

Solids	14%
Drying Time	Approximately 20 minutes at ambient temperatures. Drying time is dependent on the weight, tightness of weave, fabric type and air temperature. Therefore carefully check the coated fabric to ensure that it is dry to the touch prior to handling.
Drying Time (Accelerated)	Pass through an oven with free flowing air (convection type) at a maximum temperature of 110°F (43°C). Ensure that the fabric can withstand the accelerated temperatures prior to putting it into the oven.



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Curing Time	Approximately 12 hours at ambient temperatures.
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8. COVERAGE RATE

- Approximately 1,900 square feet per gallon (47 square meters per liter) at dry film thickness of 3 microns.
- Coverage rate will vary **significantly** depending on the absorbency of the substrate material. Contact your ALPHATEK representative to discuss potential coverage for the planned substrate material.

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.