

### 1. PRODUCT DESCRIPTION

AT 4435 - AlphaTek Industrial Insulation Coating is a single-component, water-based, fire-rated, siloxane-acrylic engineered elastomeric coating. AT 4435 provides excellent insulation protection and is a very effective weather barrier for a wide variety of industrial applications. It provides excellent UV protection. It exhibits superior adhesion to many substrates and has a high hide capability to create an aesthetically pleasing appearance. The coating is designed to dry faster than most acrylic coatings. AT 4435 combines reflective **and** thermal insulation properties. AT 4435 provides highly efficient insulation performance over multiple years thereby reducing maintenance and total lifecycle costs while delivering maximum ROI in energy savings.

### 2. SURFACE PREPARATION

- Surfaces must be free from dirt, rust, oils, moisture and other containments before starting the coating process.
- Power washing of the substrate is recommended.

### 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.
- Some solvents may degrade AT 4435. If solvents are to come in contact with AT 4435, the user should pre-test the solvent on a cured sample prior to its application.
- Mix coating well before applying to ensure that no solids have settled to the bottom of the container.
- Airless prayer is recommended for large applications.
- Brush or roller is recommended for flashing, small inaccessible areas or where overspray may be a problem. Use a paintbrush or a standard medium coarse nap roller.
- **Airless Spray Equipment:**
  - Airless spray equipment should be capable of 1 gallon per minute capacity at 3000 psi.
  - AT 4435 is designated a "medium elastomeric coating" with medium viscosity for pump purposes.
  - The use of 1/2" high-pressure hoses is recommended.
  - The airless spray gun should be equipped with a ball-bearing swivel for ease of handling.
  - Recommended orifice size is .025" to .035" diameter, wide-angle fan pattern.
  - A reverse-a-clean nozzle is recommended.
  - Exact orifice size will vary with temperature of the material and weather conditions.
- **General Application Guidelines**
  - Do not apply AT 4435 below 40°F (4°C) or in weather conditions where the temperature will fall below 40°F during the curing cycle.
  - The substrate temperature range for application is 40°F – 120°F (4°C – 49°C).
  - The service temperature range is -35°F – 180°F (-37°C – 82°C).
  - AT 4435 must not be applied during inclement weather or if any precipitation is imminent.
  - Application of materials with power spray equipment will require some masking and possible erecting wind screens to prevent overspray damage to surrounding structures, building surfaces, vehicles or other property or persons.

# AT 4435 – ALPHATEK INDUSTRIAL INSULATION COATING

## APPLICATION INSTRUCTIONS

- **Application on Polyurethane Foam**
  - Airless spray equipment should be capable of 1 gallon per minute capacity at 3000 psi.
  - Follow any manufacturer detailed instructions regarding characteristics of the polyurethane foam and preparation of the foam surface before coating.
  - Apply 1-2 coats for most applications.
  - Apply coating at 1-1 ½ gallons per 100 square feet (one liter per 1.6 – 2.5 square meters). For best results, back roll while finishing application.
  - If second coat is required, apply approximately 8-24 hours after initial coat.
- **Application on Metal**
  - AT 4435 is applied as a finish coat to metal roofs that have been properly cleaned, prepared, and primed where needed to protect the metal from further deterioration or rust.
  - Apply coating at 1.5 gallons per 100 square feet (1 liter per 1.64 square meters).
  - For best results, build final dry film thickness in two coats. Each coat should be around 0.75 gallon per 100 square feet (1 liter per 3.3 square meters).
- **Other Substrates**
  - AT 4435 may be used to waterproof, seal, and protect a variety of substrates such as single-ply membranes, concrete, plywood, board stock roof insulation, aged modified bitumen and aged BUR (with the use of an acrylic asphalt primer).
  - Adhesion of AT 4435 should always be checked. Apply 6-12" square of AT 4435 and embed a piece of polyester fabric into the coating, leaving a trail of the fabric exposed. Allow 2-3 days for the AT 4435 to cure and then perform a 900-pull test of the fabric tail to test the adhesion of the coating to the substrate.
  - To the properly prepared substrate, apply a base coat of AT 4435 at 1-1 ½ gallons per 100 square feet (one liter per 1.6 – 2.5 square meters).
  - The finish coat of AT 4435 is applied at rate of 1-1 ½ gallons per 100 square feet (one liter per 1.6 – 2.5 square meters) after the base coat has cured.

## 7. DRYING & CURING TIMES

<b>Solids</b>	65% by weight
<b>Drying Time</b>	<b><i>8-24 hours in ambient conditions.</i></b>
<b>Curing Time</b>	<b><i>2-3 days in ambient conditions.</i></b>

## 8. COVERAGE RATE

Coverage will be approximately 130 square feet per gallon (3.2 square meters per liter) @ 8 mil thickness.

### 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

Avoid prolonged and repeated contact with skin. Do not take internally. Refer to the Safety Data Sheet for this product prior to use.