

## PRODUCT DESCRIPTION

AcoustiGel insulating coating is a single-component, water-based, fire-rated silo-acrylic elastomeric coating infused with aerogel for interior, exterior, and cool roofing applications. AcoustiGel provides excellent thermal insulation for both indoor and outdoor applications, with effective acoustic insulation performance of up to 68% sound reduction. AcoustiGel improves the heating and cooling efficiency of interior spaces by creating a thermal break, reducing thermal loss between rooms.

AcoustiGel is a breathable and highly effective weather barrier coating for many types of outdoor applications. It exhibits superior adhesion to most substrates with a high hide capability for an aesthetically pleasing appearance.

## 1. SURFACE PREPARATION

- Surfaces must be free from oils and other contaminants before applying coating.
- Power washing of the substrate is recommended
- Application of corrosion reversing anti-oxidation pre-primer maybe required on rusted substrates

## 2. 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 AcoustiGel. If solvents are to come in contact with AcoustiGel, 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.
- AcoustiGel 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 AcoustiGel 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).
- AcoustiGel 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.

### **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**

- AcoustiGel 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**

- AcoustiGel 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 AcoustiGel should always be checked. Apply 6-12" square of AcoustiGel and embed a piece of polyester fabric into the coating, leaving a trail of the fabric exposed. Allow 2-3 days for the AcoustiGel 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 AcoustiGel at 1-1 ½ gallons per 100 square feet (one liter per 1.6 – 2.5 square meters).
- The finish coat of AcoustiGel 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.

**4. DRYING & CURING TIMES**

<b>Solids</b>	65 by Weight
<b>Drying Time</b>	8-24 hours in ambient conditions (75°F & 40 R.H.)
<b>Curing Time</b>	2-3 days in ambient conditions (75°F & 40 R.H.)

**5. COVERAGE RATE**

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

**6. 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 eCoat representative if you have any questions about the products or its uses.

**7. SAFETY**

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

