

# Energy Seal Coatings

Building Envelope Solutions

## Acu-AirShield

Acrylic elastomeric liquid-applied flashing



### DESCRIPTION

Acu-AirShield is a vapor permeable component in the Energy Seal Coatings Air Barrier system. It has been developed to prevent the movement of air and water through a building envelope. It is a fiber reinforced acrylic flashing grade caulk applied to seams, joints, counter flashing, cracks, gaps and around rough openings. It can also be used to seal around penetrations and countersunk fasteners.

### USES

Use as a vapor permeable air and water barrier compound to seal joints, seams and rough openings behind exterior cladding. Acu-AirShield can be applied to OSB, plywood, concrete block, exterior gypsum sheathing, fiberglass mat gypsum sheathing, concrete and many other common building materials. It is to be used as part of a continuous building envelope air barrier system. It will limit air and moisture infiltration through the building envelope. It eliminates the need for reinforcing tapes or fabrics, for gaps up to 3/4 inch.

### FEATURES & BENEFITS

- ✓ Works together with Acu-WeatherShield to provide a complete air barrier system
- ✓ Solvent free, low odor, low VOC
- ✓ Dries to form a durable weather-tight seal
- ✓ Color coded for ease of system application
- ✓ Excellent bond strength
- ✓ Bonds to most common building materials without the need for a primer
- ✓ Cleans up with soap and water, while it is wet
- ✓ Water-based, non-flammable
- ✓ Non-technical application reduces application costs
- ✓ Offers superior long term adhesion, gap filling qualities and weatherability

### PREPARATION

All surfaces to be coated must be clean, dry and free of any oil, grease, dust or dirt. Chemical residue, existing coating or other surface contaminants may adversely affect adhesion. New concrete should be allowed to cure for a minimum of 7 days.

**Damaged Sheathing:** Remove and replace any damaged sheathing.

**Gypsum Board:** In rough openings, prime all raw gypsum board edges with Acu-Prime All.

**Field Adhesion Test** is to be conducted prior to application. Contact Energy Seal Coatings technical support for testing procedures.

**Ambient air temperature and surface temperature** should be above 40°F (4°C) and below 110°F (43°C).

**Application Tools:** Dry joint knife, trowel, flexible spatula or a bondo spreader.

**Rough opening drainage:** Ensure positive drainage at all rough openings.

**Dilution:** Apply as packaged. Do not dilute or alter. Mixing is not required.

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## Technical Data

Property	ASTM	Result
<b>Color:</b>		Terracotta Red
<b>Viscosity:</b>	D 2196	140,000 ± 25,000 CPS @ 25°C / 77°F
<b>Density:</b>	D 1475	11.38 ± .1 lb/gal
<b>PH:</b>		> 8.0 ± .5
<b>Percent Solids by Volume:</b>	D 2697	52% ± 2 %
<b>Percent Solids by Weight:</b>	D 2369	73% ± 2%
<b>Flash Point:</b>		Same as water.
<b>Tensile Strength at Max Stress:</b>	D 2370	- n/a -
<b>% Elongation at Break:</b>	D 2370	- n/a -
<b>Flexibility:</b>	D 522	Pass (-5°C)*
<b>Permeability:</b>	D 1653	5
<b>Fungi Resistance:</b>	G 21	Zero Growth
<b>Coverage:</b>	5 gallons will cover 175 – 250 lineal feet of joints and rough openings, depending on size of seams.	
<b>Recommended Coverage:</b>	As needed.	
<b>Min. Surface Application Temp.:</b>	7.2°C / 45°F. Do not allow to freeze.	
<b>Drying Time estimation:</b>	4 hours @ 25°C / 77°F, 50% relative humidity.	
<b>Packaging:</b>	5 gallon buckets and 10 ounce tubes	
	<i>* After 1000 hours accelerated weathering.</i>	

**Material Coverage Rates:** 175 - 250 lineal feet (53-76 m) of sheathing joints and rough openings, per 5-gallon bucket. Coverage may vary, depending on surface porosity. Check coverage in trial area to confirm coverage rates.

**Filling joints, seams, cracks, and fasteners:** Apply a thick bead of Acu-AirShield over and around the joint, seam or crack, using suggested tool. Acu-AirShield should extend one inch on either side of the repair. Seams over ½ inch in width may require a backer rod. On plywood, seal wood knots, deep cracks or surface imperfections. Seal each fastener penetration to ensure encapsulation. Detail each fastener penetration with Acu-AirShield to ensure encapsulation.

**Rough openings:** Apply Acu-AirShield as a thick bead to all inside corners, seams, crack and gaps within the rough opening. Feather out 1 inch past the repair.

**Seal Fastener Penetrations and knots:**

Spot seal all fasteners with Acu-AirShield. Seal all cracks, splits, knots and surface irregularities with Acu-AirShield, prior to the application of Acu-WeatherShield. Feather Acu-AirShield out 1 inch beyond repair to assure proper application.

**STORAGE:** Store container in dry protected area between 40°F (5°C) and 113°F (45°C). Do not stack more than three buckets high. Shelf life is 1 year from the date of manufacture.

Our technical data and suggestions are based on information from laboratory and field testing which we believe to be reliable and correct. However, the accuracy and completeness of said tests are not guaranteed and not to be construed as a warranty, either expressed or implied. Since the use of the material is beyond manufacturer's control, buyer assumes all risk whatsoever as to their use or results obtained. We guarantee our products conform to Advanced Coating Systems, Inc. quality control. Advanced Coating Systems, Inc. warrants only the standard quality of material. Advanced Coating Systems, Inc. sole responsibility shall be to replace that portion of our product, which proved to be defective. Installer is responsible to test adhesion and product compatibility with substrate of all Energy Seal Coatings products prior to application.