



ACRYLIC SW ACRYLIC ROOF COATING

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

ERSystems® Acrylic SW is a single component, water-based acrylic, elastomeric coating. It provides excellent protection and is a weather barrier for many types of insulation and roofing materials. It also provides excellent UV protection for polyurethane foam. It exhibits superior adhesion to many substrates, has a high hide capability and is designed to dry faster than many acrylic coatings

TYPICAL PROPERTIES:

Property	Typical Value
Percent Solid:	61% by weight; 50% by volume
Viscosity:	17,000-21,000 cps
Elongation:	Initial average elongation 305% at 75°F (23.9°C)
Tensile Strength:	Initial average tensile 195 psi
VOC Content	43.1 g/L
Weight/Gallon	11.5 lbs.
Fungi Resistance	Zero Rating
Shelf Stability	2 Years
Cure Time	8-24 hours to recoat
Reflectance	Initial 80%, 3 Year Aged 70%
Emittance	Initial 0.89, 3 Year Aged 0.91
SRI (White)	Initial 101, 3 Year Aged 86



APPROVALS:

- CRRC/ Energy Star Listed
- Title 24 Compliant (Table 110.8-C)

TYPICAL USES:

Acrylic SW is a versatile, economical and easily applied coating. As part of a system, its primary uses are to protect and restore Metal Roof systems, Single-Ply Membranes and Built-up Roof systems. It may also be used over Spray Polyurethane Foam insulation, Concrete or other properly prepared roof substrates.

PACKAGING:

- 5 Gal. Pail
- 55 Gal. Drum
- 275 Gal. Tote

COLOR:

- White and Tan

APPLICATION EQUIPMENT:

Application may be brush, roller or airless spray.

- Brush or Roller:** Recommended for flashing, small inaccessible areas or where over spray may be a problem. Use a paint brush 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. Acrylic SW is designated a "medium elastomeric coating" with medium viscosity for pump purposes. 1/2" high pressure hoses perform well. 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.

APPLICATION:

Over Polyurethane Foam

- See Polyurethane Foam Insulation Roof Specification – Acrylics). Follow the detailed instructions regarding characteristics of the polyurethane foam required and preparation of the foam surface.
- Apply 3 coats. The first coat Acrylic SW should be applied at 1 ½ gallons (5.68 liters) per 100 square feet as a base coat. For best results, the base coat of Acrylic SW is typically back rolled.
- After approximately 8-24 hours, apply the second coat at the rate of 1 ½ (5.68 liters) gallons per 100 square feet. Contrasting colors of the white SW helps to assure proper coverage.
- After approximately 8-24 hours, apply the third coat at the rate of 1 ½ gallons (5.68 liters) per 100 square feet.
- Roofing granules may be embedded into a final tack coat of ½ gallon (1.89 liters) per square feet of Acrylic SW.

Over Metal:

- See Metal Roof Restoration Specification - Acrylics/ Urethane).
- Acrylic SW is applied as a finish coat to metal roofs which have been properly prepared, primed to protect the metal from rust, and sealed with HER to waterproof.
- The Acrylic SW is applied at 2.5 gallons (9.46 liters) per 100 square feet For best results, finish coating on metal is applied in two passes (2 coats at 1.25 gallons (4.73 liters) per 100 square feet per pass).

Over Other Substrates:

- Acrylic SW may be used to protect and restore a variety of roof substrates such as Single-Ply Membranes, concrete, aged modified bitumen and aged BUR (with Acrylic Asphalt Primer).
- To the properly prepared substrate (Contact ITW Polymers Sealants North America Technical Service if questions exist) a base coat of Acrylic SW is applied at 1-1 ½ gallons (3.78-5.68 liters) per 100 square feet. The finish coat of Acrylic SW is

applied at 1-1 ½ gallons (3.78-5.68 liters) per 100 square feet after the base coat has cured. Addition of 25-30 lbs. of #11 roofing granules is often embedded into a tack coat of 1/2 gallon (1.89 liters) per 100 square feet Acrylic SW.

- Adhesion of Acrylic SW should always be checked. Apply 6-12" square of Acrylic SW and embed a piece of polyester fabric into the coating, leaving a tail of the fabric exposed. Allow 2-3 days for the Acrylic SW to cure and perform a 90° pull test of the fabric tail to test adhesion of the coating to the substrate.

TEMPERATURE CONSTRAINTS:

Do not apply **Acrylic SW** below 40°F (4.45°C) or in weather conditions where the temperature will fall below 40°F (4.45°C) during the cure cycle. The substrate temperature range for application is 40°F (4.45°C) – 120°F (48.9°C). The service temperature range is -35°F (-37.2°C) – 180°F (82.2°C).

APPLICATION LIMITATION:

- Prior to the application of any top coat over new or freshly applied asphalt based product consult with the asphalt product manufacturer or NRCA guidelines for necessary asphalt cure times prior to coating.
- Substrate must be clean, smooth and free of dirt, rust and/or moisture. Power washing of substrate is recommended.
- Acrylic SW must not be applied during inclement weather and should not proceed if any precipitation is imminent.
- Application of materials with power spray equipment will require some masking and possible erection of wind screens to prevent over spray damage to surrounding structures, building surfaces, vehicles or other property or persons.

CLEAN UP:

Flush all hoses, equipment, and tools with water immediately after use.

STORAGE:

Always store Acrylic SW above 40°F (4.45°C) and below 85°F (29.4°C). Keep from freezing.

CAUTION:

Avoid prolonged and repeated contact with skin. Do not take internally. Acrylic SW may be attacked by some solvents. If solvents are to come in contact with Acrylic SW, the user should test solvent on a cured sample prior to application, or request information from ITW Polymers Sealants North America technical services. Acrylic SW should not be used in areas of standing water.

PRIOR TO USE OF THIS MATERIAL,
READ ALL APPROPRIATE SAFETY DATA SHEETS

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