



# ACRYLIC 1000 PLUS

## PREMIUM ACRYLIC ROOF COATING

### TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION:

ERSystems® Acrylic 1000 Plus is a single component, water-based Fire-rated 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 to provide a pleasing appearance and is designed to dry faster than many acrylic coatings.

#### TYPICAL PROPERTIES PER ASTM D-6083

| Property  | Typical Value                               |
|---|---|
| Colors  | White & Gray                                |
| Percent Solid:  | 53% by Volume, 65% by Weight                |
| Viscosity:  | 17000-21000 cps                             |
| Elongation:   | Initial 325% , Aged 225%                    |
| Tensile Strength:   | Initial 257 psi, Aged 420 psi               |
| Low Temperature Flexibility   | Pass @ -15°F (-26.1°C)                      |
| Permeance   | Perms 7.4                                   |
| Weight/Gallon   | 11.6 lbs.                                   |
| VOC Content   | 26.4 g/L                                    |
| Fungi Resistance  | Zero Rating                                 |
| Water swell   | 4.3%  |
| Cure Time   | 8-24 hours to recoat                        |
| Reflectance   | Initial 0.87, 3 Year aged 0.79 (White only) |
| Emittance   | Initial 0.87, 3 Year aged 0.89 (White only) |
| SRI (White)   | Initial 110, 3 Year aged 99 (White only)    |
| **The shelf life for an unopened container stored at temperatures between 60°F (15.6°C) and 95°F (35°C) is 2 years from date of manufacture. Store out of direct sunlight in a cool, well-ventilated area. Avoid storing container directly on the floor or against an outside wall |   |

#### APPROVALS:

- CRRC/ Energy Star Listed
- Title 24 Compliant (Table 110.8-C)
- NOA 17-0719.03 Miami Dade County, Florida
- Class A Fire Rated per UL790/ASTM E-108-07a
- FM Approved



#### TYPICAL USES:

Acrylic 1000 Plus is a versatile, economic and easily applied coating. Primary uses are to protect polyurethane foam insulation and to waterproof metal buildings. It may also be used over smooth BUR, Single-Ply Membranes, concrete, board stock roof insulation, and properly prepared plywood.

#### 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 1000 Plus** 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 2 coats. The first coat of **Acrylic 1000 Plus** 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 1000 Plus** is typically back rolled.
- After approximately 8-24 hours, apply the second coat at the rate of 1 ½ gallons (5.68 liters) per 100 square feet. Contrasting colors of the White and Gray **Acrylic 1000 Plus** helps to assure proper coverage.
- Roofing granules may be embedded into a final tack coat of ½ (1.89 liters) gallon per 100 square feet of **Acrylic 1000 Plus**.

##### Over Metal:

- See Metal Roof Restoration Specification - Acrylics/ Urethane). **Acrylic 1000 Plus** 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 1000 Plus** is applied at 2 gallons (7.64 liters) per 100 square feet. Finish coating on metal is applied in two passes (2 coats at 1 gallon (3.78 liters) per 100 square feet, per coat.

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#### Over Other Substrates:

- Acrylic **1000 Plus** 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 1000 Plus** is applied at 1-1 ½ gallons (3.78-5.68 liters) per 100 square feet. The finish coat of **Acrylic 1000 Plus** is applied at 1-1 ½ gallons (3.78-5.68 liters) per 100 square feet after the base coat has cured. The addition of 25-30 lbs. of #11 roofing granules is often embedded into a tack coat of 1/2 gallon (1.89 liter) per 100 square feet of **Acrylic 1000 Plus**.
- Adhesion of **Acrylic 1000 Plus** should always be checked. Apply 6-12" square of **Acrylic 1000 Plus** and embed a piece of polyester fabric into the coating, leaving a tail of the fabric exposed. Allow 2-3 days for the **Acrylic 1000 Plus** 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 1000 Plus** 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 1000 Plus** 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.

#### PACKAGING:

- 5 Gallon Pail, 55 Gallon Drum and 275 Gallon Tote

#### STORAGE:

Always store **Acrylic 1000 Plus** 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 1000 Plus** may be attacked by some solvents. If solvents are to come in contact with **Acrylic 1000 Plus**, the user should test solvent on a cured sample prior to application, or request information from ITW Polymers Sealants North America technical services. **Acrylic 1000 Plus** 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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