

ACRYLUM

ELASTOMERIC ALUMINUM REFLECTIVE COATING

Technical Data & Application Instructions

DESCRIPTION

ACRYLUM is a durable, water-based, specially formulated aluminum asphaltic emulsion that resists the elements while protecting roof surfaces. When properly applied, ACRYLUM reflects up to 55% of the sun's rays, contributing to substantial energy savings. ACRYLUM'S high reflectivity also prevents premature aging of the roof by reducing UV deterioration of the asphalt substrate below, and by cooling the roof surface to reduce thermal shock. ACRYLUM has excellent elongation and tensile strength properties. It dries to a flexible, slightly textured film with a beautiful metallic finish. ACRYLUM is recommended for use on metal, smooth built-up, mineral surface built-up, modified bitumen and emulsion roof systems.

Applicable Standards

- Meets ASTM D1227 and D1187

PACKAGING

ACRYLUM is a silver-gray, viscous liquid, which cures to a bright metallic finish. It is packaged in 5-gallon (19 liter) pails or 55-gallon (208 liter) metal drums. Pallet quantities consist of: thirty-six 5-gallon (19 liter) pails or four 55-gallon (208 liter) drums.

BENEFITS

- Reflects The Sun's Rays
- Water-Based
- Prevents Premature Roof Aging
- Beautiful Metallic Finish
- Durable and Flexible over Wide Temperature Range
- Reduced Life Cycle Cost
- Safe and Easy to Use

LIMITATIONS

ACRYLUM is not recommended on roof areas with inadequate drainage or over surfaces that pond water. ACRYLUM is not recommended over asphalt or wood shingles.

Store materials in a cool, dry protected area. DO NOT ALLOW COATING TO FREEZE. Protect from damage during transit, handling, storage and installation.

Do not take internally. If swallowed, do not induce vomiting. Call a physician immediately. Keep out of reach of children

For Use Over The Following Roof Types

- ✓ Built-Up Roofing
- ✓ EPDM
- ✓ Metal
- ✓ PVC
- ✓ Concrete
- ✓ Hypalon®
- ✓ Modified Bitumen
- ✓ SPF

PHYSICAL PROPERTIES

Properties	Method	Value
Base	ASTM D1227 Type III	Asphalt Emulsion
Pigment		Highly Polished Aluminum Flake
Flammability		Wet: Non-Flammable Dry: Class A
Consistency		Heavy Paint
Spectral Reflectance	ASTM E 97-77	88%
Elongation		Excellent
Tensile Strength		Excellent
Weatherability		Excellent
Flexibility		Excellent
Nominal Weight Per Gallon		8.5 lbs (3.9 kg)

NOMINAL COVERAGE

ACRYLUM is applied in a single coat at the rate of 1 gallon per 100 sq. ft. (.4 l/m²). Application rate will increase due to uneven application, rough surface texture or other variables.



CURING GUIDELINES

ACRYLUM cures in approximately one hour @ 70°F (21°C), 50% relative humidity. Curing time may vary depending upon wet film thickness, cool temperatures and high humidity.

INSTALLATION

All substrates must be clean, dry (may be slightly damp), and free from dirt, dust, oil, grease, wax, rust, chalky or loose paint, mildew or other contaminants that may interfere with proper adhesion. This may require scrubbing with a detergent solution to remove oils and other residues. Flush immediately using a strong stream of clean water.

ACRYLUM performs best when applied over new asphalt emulsion surfaces. Prior to coating over fresh asphalt emulsion, such as UNITED Cool Roof Systems' **AcryMulsion** the emulsion must be thoroughly dry and cured. In warm, dry weather, the curing time of asphalt emulsion will normally require 3 to 10 days. If **ACRYLUM** is applied over uncured asphalt emulsion, it may turn gray, dark gray or brown.

New, smooth, "glazed" asphalt surfaces should be allowed to age for 1 to 3 months before coating with UNITED Cool Roof Systems' **ACRYLUM** or asphalt emulsion. Apply emulsion at the rate of 2 to 3 gallons per 100 sq. ft. (.8 to 1.2 l/m²). Allow 3 to 10 days for the emulsion to cure prior to application of the **ACRYLUM** topcoat. Additional cleaning may not be required prior to application if the **ACRYLUM** is applied within that time.

Apply **ACRYLUM** when surface and/or air temperatures are above 55°F (13°C). Do not apply if cold weather, rain and/or fog are expected within 24 hours of application. **ACRYLUM** not only has to look cured, it must be fully cured to be fully protected against moisture.

Thoroughly mix all containers of **ACRYLUM** before application. Apply a single coat of **ACRYLUM** at the minimum rate of 1 gallon per 100 sq. ft. (.4 l/m²) to a dry or slightly damp (not wet) surface. Best results are achieved through spray application. If brushing, use a 24" (60 cm) wide soft-bristle broom. Wind-row the **ACRYLUM** at an angle, and broom in place.

For specific installation details see appropriate application specification.

CLEANUP, STORAGE & DISPOSAL

ACRYLUM is water-based, allowing for ease of application and cleanup. To facilitate cleaning, material should be washed from hands and tools, and spills should be taken care of immediately following application, using soap and clean water. Dried **ACRYLUM** can be cleaned using paint thinner or kerosene. Store unused product in its original container, with the lid tightly sealed. Protect from freezing during storage. Dispose of waste in accordance with local, state and federal requirements.

LIMITED WARRANTY

Cool Roof Products warrants that, at the time of delivery, the product shall conform to UNITED COOL ROOF SYSTEMS' Product specifications. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. It is the Purchaser's sole responsibility to determine the suitability of this product for any particular application.



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