Energy Seal Coatings

Cool Roof Solutions

Acu-Shield

Elastomeric Roof Coating

DESCRIPTION

Acu-Shield is a single component, water-based, 100% acrylic elastomeric coating. It is engineered to provide excellent weather barrier protection for a variety of roofing substrates.

CRRC COOL ROOF RATING COUNCIL RATED PRODUCT

USES

Acu-Shield dries to form a “rubber-like” protective membrane over asphalt, concrete, EPDM, stucco, wood, tile, capsheet, TPO, PVC and metal roof surfaces. High long term solar reflective index makes it ideal as a ‘cool roof’ coating.

FEATURES & BENEFITS

- **SRI**: Initial 113 - After 3 yrs. 101
- **Solar Reflectance**: Initial 0.89 - After 3 yrs. 0.81
- **Thermal Emittance**: Initial 0.89 - After 3 yrs. 0.87
- Reduces daily expansion and contraction (thermal cycling).
- Contains strong rust inhibitive pigments.
- Reflects 90% of the infra-red heat and harmful UV rays of the sun.
- Excellent reflective properties which helps to reduce cooling costs. Prevents premature aging and leaks.
- Contains a strong mildewcide / fungicide.
- Excellent adhesion to various substrates.
- Superior resistance to dirt pick-up, helps stay white longer & maintains reflectivity.
- Easy to use, easy clean up, non-toxic and VOC compliant water based coating.

Acu-Shield

PREPARATION

All surfaces to be coated must be clean, dry and free of any oil, grease or dirt. High pressure water washing is recommended. Any existing coating must be checked for good adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned and checked for compatibility.

ENERGY STAR PARTNER

APPLICATION

Acu-Shield is ready to use. Thinning is not required or recommended.

Spray: Airless sprayer. 3000 p.s.i., 2 g.p.m. capacity with a #631 tip.
Brush: Good quality synthetic bristle brush.
Roller: Long nap roller.

V.O.C.
50 g./lit.

Rev 0413

Manufactured by Advanced Coating Systems, Inc.

www.energy-seal.com

Seal It. Conserve It. Protect It.

800-587-3758

Acu-Shield

Technical Data

Property	ASTM	Result
Color:		White; custom colors available.
Viscosity:	D 562	115 – 120 KU @ 25°C / 77°F
Density:	D 1475	11.75 ± .1 lb/gal
PH:		> 8.0 ± .5
Percent Solids by Volume:	D 2697	51% ± 2 %
Percent Solids by Weight:	D 1644	65% ± 2%
Flash Point:		Same as water.
Tensile Strength at Max Stress:	D 2370	254 lb/in^2 @ 22°C / 73°F
% Elongation at Break:	D 2370	465% @ 22°C / 73°F
Flexibility:	D 522	Pass (-5°C)*
Permeability (20 mil dry film)	D 1653	21
Fungi Resistance:	G 21	Zero Growth
Coverage:	2.5 gallons per 100 sq.ft. yields 20 dry mils. 3.5 gallons per 100 sq.ft. yields 30 dry mils. For corrugated metal, add 20% for pitches & ribs.	
Recommended Coverage:	Minimum of two coats. (20 dry mils.)	
Min. Surface Application Temp.:	7.2°C / 45°F. Do not allow to freeze.	
Drying Time estimation:	3 hours @ 25°C / 77°F, 50% relative humidity; to sustain foot traffic.	
Packaging:	5 gallon buckets, 50 gallon drums.	
	** After 1000 hours accelerated weathering.*	

CRRC COOL ROOF RATING COUNCIL ®

	Initial	Weathered
Solar Reflectance	**0.89**	**0.81**
Thermal Emittance	**0.89**	**0.87**

Rated Product ID Number	0001
Licensed Seller ID Number	0728
Classification	Field-Applied Coating

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

CAUTION: Do not apply within one hours of sunset, rain, fog or freezing temperatures. All coatings must be completely dry before exposing to water or foot traffic. Keep all containers covered when not in use. Dispose of all containers in accordance with state and local environmental regulations. Keep away from children. If ingested, DO NOT induce vomiting. Call Physician immediately.

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 out 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.