

Energy Seal Coatings

Cool Roof Solutions

Acu-Flex:70

Single Component Silicone Elastomeric Coating



DESCRIPTION

Acu-Flex:70 is a high solids single component, pure elastomeric, moisture cure silicone rubber coating. It is specifically designed for use in roofing application as a weatherproof, ultraviolet resistant, 'Cool Roof' coating. Product performs well under all weather conditions from sub-zero to high heat in excess of 200°F (93°C).

USES

Acu-Flex:70 is used as a breathable membrane possessing superior weathering and water resistance characteristics. It exhibits rapid cure when exposed to ambient conditions. *However, it is not be applied to the exterior of refrigeration tanks or cold storage roofing.*



FEATURES & BENEFITS

Once cured, this liquid applied silicone coating provides a durable, seamless, flexible, waterproof membrane that resists lateral movement and shear and will allow for normal expansion and contraction. Acu-Flex:70 offers greater UV protection than similar silicone coatings and provides increased resistance to moisture penetration. Acu-Flex:70 has excellent long term protection and shows exceptional weatherability properties.

Acu-Flex:70 carries Class "A" Non-Combustible and Class "B" Combustible credentials as tested under UL-790 procedures over spray foam and single-ply roofing systems.

Acu-Flex:70 offers excellent protection over primed BUR and granulated cap sheet, concrete, well-adheared acrylic coating, metal, EPDM, spray-in-place polyurethane foam and various membrane roofing.

PREPARATION

Apply Acu-Flex:70 only to clean, dry, mechanically sound surfaces free of loose particles or other foreign matter. Roof surface must be dry before application. For best results, ambient temperature should be between 50-90°F. It is not recommended to apply within 1 hour of rainfall.

Acu-Flex:70 is ready to use. **Thinning is not required or recommended.** Do not use an electric mixer to mix; hand mix or use an air operated mixer, if needed.

Acu-Flex:70 is a moisture cure product. The addition of moisture to the coating will accelerate the cure time of the coating. This acceleration may cause intercoat adhesion difficulties or blistering.

As with any product, use of Acu-Flex:70 coating in a given application must be tested (including but not limited to field adhesion testing) in advance by the user to determine suitability.

Not recommended for continuous immersion service, ponding water areas must be corrected prior to use. Ponding area may be the result of roof failure.

APPLICATION

Spray: Airless sprayer. 3500 p.s.i., 3 g.p.m. capacity with a #631 tip. Hoses should be BUNA-N jacketed to prevent moisture contamination.

Brush: Soft bristle brush

Roller: Medium nap roller

Maximum time between coats is 72 hours. Longer recoat time may result in poor intercoat adhesion and possible delamination.

ACU-FLEX:70



V.O.C.
< 250 g./lit.

www.energy-seal.com

Charter Member

ENERGY STAR
ROOF PRODUCTS PROGRAM

Money Isn't All You're Saving



Acu-Flex:70


Technical Data

Color:	White
Viscosity:	8,000 – 14,000 cps Brookfield @ 25°C / 77°F
Density:	10.3 lb. per gallon
Percent Solids by Volume:	69% ± 2%
Percent Solids by Weight:	80% ± 2%
Flash Point:	100°F/ 37°C
Impact Resistance:	Exceeds 160 in/ lb ASTM D624
Tensile Strength at Max Stress:	485 psi @ 25°C / 77°F ASTM D412
% Elongation at Break:	265% @ 25°C / 77°F
Permeability:	5.9 perms ASTM D96
Service Temperature:	-50° to 250°F
Standard Coverage:	1 gallon per 100 sq.ft.
Suggested number of coats:	2 coats, which yields 20 dry mils
Min. Surface Application Temp.:	35°F / 2°C
Drying Time estimation: Dry time dependent on temperature and relative humidity.	Dry to touch: 4 - 6 hours Tack Free: 1 hours Recoat: 8 hours
Shelf Life:	6 months @ 35° - 75°F in unopened tightly sealed container.
Packaging:	5 gallon buckets and 50 gallon drums
Clean Up:	Mineral spirits

SAFETY PRECATIONS: This product contains combustible solvents. Keep coating material and cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. Pumping equipment should be grounded to avoid accidental ignition due to static sparks. Avoid breathing solvent vapors. This product is not recommended for interior use.

D.O.T. Classification: Roof Coatings, not regulated

HMIS Rating: Health 2, Flammability 2, Reactivity 0, Protection X
0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

	Solar Reflectance	<u>Initial</u> 0.84	<u>Weathered</u> 0.66
	Thermal Emittance	0.89	0.90
	Rated Product ID Number	0005	
	Licensed Seller ID Number	0726	
	Classification	Field-Applied Coating	
<p>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.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p>			

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 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.