

# Energy Seal Coatings

Cool Roof Solutions

## Acu-Sil Prime

Silicone Coating Primer



### DESCRIPTION

Acu-Sil Prime is a high quality single component moisture cure siloxane based product used as a primer for silicone-base coatings. It has excellent adhesion to porous and non-porous surfaces. It is resistant to staining and blistering and exhibits excellent alkali resistance over masonry surfaces. It will also stop and prevent corrosion on metal surfaces.

### USES

Acu-Sil Prime is an ideal primer for use in a silicone-based roof coating system. It is a primer used over metal, concrete, built-up asphalt, modified bitumen, polyurethane foam, single-ply, cap sheet to name a few substrates.

### FEATURES & BENEFITS

- ✓ Deep penetrating primer
- ✓ Adheres tightly to most surfaces
- ✓ Superior adhesion to various substrates
- ✓ Bonds to porous and non-porous surfaces
- ✓ Provides a tough, durable film
- ✓ Is not a vapor barrier, will allow substrate to breath
- ✓ Quick drying time
- ✓ Single component primer
- ✓ Easily applied with brush, roller or airless spray equipment

### 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.

### APPLICATION

Acu-Sil Prime is a moisture cure coating. Do not allow this product to come in contact with water before of during application. Acu-Sil Prime is ready to use. Thoroughly mix Acu-Sil Prime prior to use.

Airless Spray: 3500 psi, 3 gpm capacity with a #631 tip. Hoses should be BUNA-N jacketed to prevent moisture contamination.

Brush: quality synthetic bristle brush

Roller: medium woven nap roller

Apply Acu-Sil Prime in a uniform manner, making sure to overlap strokes or passes. Properly clean spray equipment, prior to use, to completely eliminate water residue.

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

**ACU-SIL PRIME**

Manufactured by Advanced Coating Systems, Inc.

[www.energy-seal.com](http://www.energy-seal.com)

**Seal It. Conserve It. Protect It.**

**800-587-3758**

# Acu-Sil Prime

## Technical Data

Physical Property	Test	Value
Appearance:	Internal	Viscous liquid
Type:	Internal	100% silicone primer
Color:	Internal	Beige
Water permeability, perms:	E-96	10.25
Fungus resistance:	G-21	Passed
Solids by volume, %:	D-1644	78.0 ± 2
Solids by weight, %:	D-1644	65.0 ± 2
Density, gr/ml:	D-1475	1.26 ± 2
Elongation:	D-412	100% @ 25°C / 77°F
Tensile strength, lb/in <sup>2</sup> :	D-412	200 lb/in <sup>2</sup> @25°C / 77°F
Dry time for water resistance:	D-1640	2 hours
Total dry time:	D-1640	24 hours
Low temperature flexibility:	D-522	-15°F (-26°C) Passed
Accelerated weathering:	G-151 & D-154	No deleterious effect after 5,000 hours
Packaging:	5-gallon buckets, 50-gallon drums	
Clean-up:	VM&P Naphtha	

\*estimated time may increase dependent on temperature and humidity

**Acu-Sil Prime is a moisture cure coating.** This coating is packaged with a layer of nitrogen on the surface of the coating, to retard curing. Once the bucket is opened and exposed to the environment, the ambient moisture will begin the curing process. If a skin forms on the surface of the coating, remove it before use.

#### APPLICATION RATES:

Smooth surface - .60 gallon per 100 sqft.  
Granulated surface - .75 gallon per 100 sqft.

**Acu-Sil Prime must be top coated with Acu-Flex:100 within 48 (fourth eight) hours after application. If not, mechanical abrasion of the Acu-Sil Prime will be required to achieve a proper surface to insure Acu-Flex:100 adhesion.**

**STORAGE:** Store container in dry protected area between 40°F (5°C) and 113°F (45°C). Do not stack more than three buckets high. Unopened, shelf life is 1 year from the date of manufacture.

**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.