



# SILICONE 9600

## Technical Data Sheet

For Professional Use Only

## High Solids, No Mix, Silicone Elastomeric Coating

### Recommended Uses

ProRoof 9600 Silicone is designed as a protective coating for most roof membranes. Un-matched adhesion to unprimed TPO, PVC and EPDM along with excellent performance over weathered metal, primed cap sheet and mod-bit membranes.

### Description

- A high solids, single component, moisture cure fluid applied silicone coating that's ready to use
- Best in class flexibility. Doubles the elongation of all major competitors and ensures long-term crack resistance even in high-movement situations
- Shelf life of 18 months
- Typically, no mixing is required for up to 6 months
- Excellent sag resistance
- Superior weathering and excellent water resistance in a breathable membrane
- Exceptional adhesion to unprimed, weathered, or painted metal, TPO, PVC and EPDM

### Colors

**Standard Colors:** WHITE, LIGHT GRAY and TAN. Special colors are available for additional cost.

### Packing/Shipping Information

#### CONTAINER SIZES:

55 Gallon Drum (208.2 liters)

SHIPPING CLASS - 55

5 Gallon Pail (18.9 liters)

## Typical Properties

Property	Test Method	Results
Volume Solids	ASTM D-2697	90%
Weight Solids	ASTM D-1644	91%
Tear Resistance (Die C) lb f/in	ASTM D-624	30 +/- 3
SRI	CRRC	110
Reflectivity (White)	ASTM C-1549	.87
Emissivity (White)	ASTM C-1371	.89
VOC	EPA Method 24	< 50G Liter
Permeance	ASTM E-96 (procedure B)	6.7
Temperature Stability Range		-80 F to 350* F (-37C to 117C)
Weathering/UV Resistance	ASTM D-6694	No degradation 5000 hours
Specific Gravity		1.30 @ 77* F (25C)
Tack Free Time	Temp & Humidity dependent	20-30 min
Elongation (break)	ASTM D-2370	468% @ 73* F +/- 50%
Durometer Hardness	ASTM D-2240 Shore A	36
Max Continuous Service Temp		185* F (85C)
Shelf Life	Stored @ 35 F to 75* F	12 Months

## Surface Preparation

**General:** Surfaces to be coated should be dry, free of dust, dirt, oil, peeling coating and other foreign matter. All wet insulation or foam should be removed and replaced with like materials. It may be

necessary to power wash and/or prime to enhance adhesion.

**Environmental Conditions:** The product must not be applied when the ambient temperature is below 0\* F. Application is not recommended if rain or dew is likely to occur before the product dries.

**Limitations:** Surface must be clean and dry. Do NOT apply over wet substrates or when inclement weather is imminent. In addition, this product is not recommended for use without vapor barrier in cryogenic tank or cold storage roofing applications or directly over modified bitumen, asphalt, or coal tar built-up roofing systems without a sealer. This product carries Class "A" Non-Combustible and Class "B" Combustible credentials as tested under UL 790 procedures over spray foam and single-ply roofing systems.

**Ponded Water:** Proguard warranties do not cover damage due to ponding water. The National Roofing Contractors Association considers ponding water on any roof unacceptable.

## Applications

This product may be brushed, rolled or sprayed on a clean, dry surface. For details, see equipment recommendations at the end of this sheet. Polyurethane foam should be coated within 24 hours of application. Coatings may be applied in 2 or 3 separate applications of contrasting colors, each applied at right angles to the previous coat. The coating must be evenly applied and pinhole free. Before applying an additional coat, the previous coat must be completely dry before the application of subsequent coats.

For details see Equipment Recommendations at the end of this sheet. It is critical that this be allowed to cure for a MINIMUM of 24 hours and even longer in cool or high humidity environments.

### Application Properties:

Yield ( 1 gallon to 100 sq ft)	14 Dry Mil
Dry Time (100* F)	2 Hours @ 90% Humidity
Dry Time (40* F)	8 Hours @ 20% Humidity
ReCoat Window	> 8 Hours
Complete Cure	48 Hours

### Coverage Rate:

Apply ProRoof Silicone 9600 at a rate of 1.5 gallon per square foot.

## Equipment:

Minimum Requirements:

### Brush

- Synthetic filament

### Roller

- 1 1/4 nap roller

### Spray:

- Minimum 6500 PSI high-pressure airless paint pump
- 3 gallons or more per minute (continuous) output
- 5:1 transfer pump to prevent cavitation
- Hose rated to 2x maximum pump pressure
- Hose should be BUNA-N jacketed to prevent moisture contamination
- Hose lengths: (Largest diameter at pump)
  - 3/4 minimum
- Spray gun: High-pressure 7000 PSI
- Spray Tip:
  - Reversible self-cleaning type
  - Orifice size of .030
  - Fan angle of 40\* to 50\*
- Always use components rated for pump pressures
- Do not use a hose that has been used for Acrylics. The liner will absorb moisture and start the silicone cure process

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**Clean Up:** Clean spray equipment containing uncured material by flushing with VM&P, Naphtha, or mineral spirits. ProRoof Silicone 9600 cures by reacting with moisture. Do not leave in spray guns, pump equipment, and hoses for prolonged periods unless the equipment contains moisture lock hoses, fittings, and seals. Without these, the material will cure on hose walls and at unsealed connections possibly causing an increase in operating pressure and material flow restriction.

## Safe Practices

The product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include, but not limited to, SDS and product labels. More resources are available at [proguardbuilding.com](http://proguardbuilding.com) or by contacting Proguard Building directly.

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