



## Tech Data Sheet

# KOOLFLEX PREMIUM KF-600 PREMIUM HIGH SOLIDS SILICONE

### Basic Uses & Description:

**KoolFlex 600 Premium** 100% Silicone Roof Coating (High Solids) is a high solids, single component moisture cure elastomeric silicone roof coating used to coat a variety of substrates; the primary intended use is on low slope roofs.

The system provides long-term protection because it resists weathering, aging, oxidation, wind-driven sand, rain and snow, the effects of ozone, ultraviolet radiation and the temperature extremes typically found on roofs. The 100% Silicone Roof Coating High Solids is available in three standard colors, including White, Tan and Gray.

#### High-Solids Efficiency:

95% solids for true one-pass, high-build application.

#### Rain-safe in 1 hour

Cold-Weather Flexibility:

Maintains **229% elongation at 0°F** for year-round performance.

Ponding Water Resistance:

**Low perm rate and 30 lb/in tear strength** protect in standing water.

### Applications & Uses:

Ideal for use as a maintenance coating system to seal and repair existing low slope roofs.

Provides a seamless water seal, protection against leaks, permanent ponding water and the damaging effects of severe weather on roofs and other substrates including:

- Masonry
- Concrete
- Metal
- Vertical walls
- Single-ply membranes
  - » TPO
  - » PVC
  - » Hypalon
  - » EPDM
  - » Modified-bitumen
  - » Smooth and granulated surface BUR
- Sprayed-on urethane foam

### Spray Equipment:

Due to the high viscosity of the material, a high-pressure airless sprayer capable of producing a minimum of 3500 PSI at the spray gun head should be used. The pump should have a minimum of 3 gallons per minute output rate. Always use components rated for pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination.

Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should have reverse-a-clean spray tip, having a minimum orifice of .030 and a 50\* fan tip.

### Application:

#### PREP:

All surfaces to be coated must be clean and dry; chemical cleaners, power-washing and/or priming the surface may be necessary to ensure optimal adhesion for some substrates. Any damaged membranes, flashings, and penetration points must be properly repaired and sealed prior to application. Low water ponding areas should also be repaired to avoid future water ponding.

#### MIX:

Mix well before using until a uniform consistency and color is achieved. A power mixer is recommended for quantities larger than one gallon. A power mixer is recommended for quantities larger than one gallon.

**DO NOT THIN** - The addition of thinners or other additives will alter the intended performance and void all warranties.

#### APPLY:

The coating can be applied with standard airless spray equipment or applied by medium napp roller. For small, touch-up work, a brush may be used.

Recommended application rate for most substrates:

1.5 gallons per 100 sq ft equates to 17 mils wet film thickness



ASTM D6694 COMPLIANT



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### Packaging Sizes:

**KoolFlex Premium** 100% Silicone Roof Coating is available in 50 gallon and 5 gallon containers.

### Maintenance:

The life of the roof may be extended by regularly scheduled maintenance. A roof should typically be inspected at least twice a year. The roof immediately needs to be inspected following severe weather and extraordinary maintenance on roof-mounted equipment.

### Weater Restrictions & Cure Time:

It is recommended not to apply in temperatures less than 40 degrees Fahrenheit; do not apply if rain is expected within four hours of application. If applied in lower temperatures, the cure time may be affected.

The coating can dry in 1-4 hours depending on variables such as temperature and humidity. A subsequent coat should be applied as soon as the previous one can safely be walked on.

### Clean Up:

All equipment can be cleaned using 100% mineral spirits. Do not use water or reclaimed solvents.

### Limited Warranty Information:

Available warranties include Full System Limited Warranties that range from 5 to 20 years. For warranty details, contact your Kool Coats representative.

### Storage:

For best results use within two (2) years of date of manufacture; store in unopened containers between 40 - 85 F (4 - 29 C). Once the material is open, the curing process has begun, and the entire container should be used. Allow leftover material to solidify and dispose of according to local and state regulations.

TEST PROPERTY	TEST VALUE	
Appearance	White, Gray, Tan	
Solids by Content	96%	
Volume Solids	95%	
Initial Tensile Strength	266 (@ 73° F, Psi) / 247 (@ 0° F, Psi)	
Initial Elongation	279% (@73° F) / 248% (@0° F)	
Elongation (5,000 hr aging)	194% (@73° F) / 229% (@0° F)	
5,000 hrs. Accelerated Weathering	PASS	
Permeance	6.3 (@ 73.4 F / 50% Rh, Us Perms)	
Wet Adhesion to Spf, Pli	≥2	
Tear Strength, Die C, Lbf/In	30	
Low Temperature Mandrel Bend	Pass (@ -15 F)	
Specific Gravity at 77° F	1.30 +/- .04	
Tack-Free Time	1-2 hours	
Skin Over Time	1-4 hrs depending on Temp & %RH	
VOC (EPA Method 24), g/l	< 50	
Temperature Stability Range	-67° - 350° F	
Flash Point	167° F	
Initial SRI Value	109	
3 Year Aged Solar Reflectivity	TBD	
3 Year Aged Thermal Emissivity	TBD	
Shelf Life	24 Months	
Final Cure Time	30 hours	NSF Certification Requirements
Recoat Cure Time	24 hours	
Dry Coat Thickness	20 mils	
* These properties are not intended to be used as specifications but only as suggested characteristics		

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The information reported herein are based upon information reasonably available to Kool Coats at the time publication, and are presented in good faith but are not to be construed as warranties or guarantees, expressed or implied.