



32TR 100% Silicone Roof Coating

Basic Uses & Description:

TotalRoof 100% Silicone Coating is a one-component, moisture curing silicone rubber roof coating system designed for use on existing smooth surface BUR, granulated cap sheet, well-adhered acrylic coating, concrete, metal, sprayed-in-place polyurethane foam and various single-ply membrane roofing.

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. With its high solids content and absence of hydrocarbon solvents Total Roof 100% Silicone Coating can be applied in excess of 40 mils in a single coat without blistering, while maintaining maximum adhesion. TotalRoof 100% Silicone Coating is available in four standard colors:

- White
- Tan
- Light Gray
- Dark Gray

(Custom colors available upon request at an additional charge)

This product may contribute towards a variety of LEED credit points.

Composition and Materials:

TotalRoof 100% Silicone Coating is a dispersion of silicone rubber. This coating is a one-part, ready-to-use material that can be applied easily to a dry, frost-free surface, and cures at normal temperature and humidity in 1 to 4 hours by reacting with moisture in the air. For applications with lower than normal temperature and humidity levels, expect the cure time to be longer.

Storage and Shelf Life:

TotalRoof 100% Silicone Coating has a recommended shelf life of 12 months from date of manufacture when stored in unopened containers and between 40°F and 80°F. Refer to product packaging.

Application:

Surfaces to be coated with TotalRoof 100% Silicone Coating must be properly prepared. All surfaces must be clean, dry and free of loose particles. The coating can be applied with standard airless spray equipment or applied by medium nap roller. For small touch-up work, a brush may be used.



Technical Product Data

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 be high pressure (5000 PSI) with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip.

Typical Properties

As Supplied:	As Cured:
Appearance.....White, Dark Gray, Light Gray, and Tan	Durometer Hardness, Shore A, points ASTM D-2240.....37
Solids Content,	Tensile Strength, psi ASTM D-412.....247
Percent by volume ASTM D-2369.....92(+/-3)	Elongation, percent ASTM D-412.....237
Specific Gravity, at 25°C (77°F).....1.24	Permeability ¹ , perms ASTM E-96.....10.7
Tack-Free Time.....1-2 hrs.	Tensile, Set at 100 percent elongation.....Nil
Cure Time.....1-4 hrs.	Temperature Stability Range, °C (°F)..... - 37 to 100 (-35 to 212)
Volatile Organic Compounds.....<50 grams/liter	Accelerated Weathering, QUV, 5,000 hours
Flash Point.....141°F	ASTM G 154.....No degradation
	Flame Spread ASTM E-108.....Class A
	Initial Solar Reflectivity ² , ASTM C-1549.....89
	Initial Thermal Emissivity ² , ASTM C-1371.....90
	SRI Value ²113

¹20 mils at 38°C (100°F) and 90 percent relative humidity
²Applies to HS 3201 white only

Packaging Sizes:

TotalRoof 100% Silicone Coating is available in 1 or 5 gallon pails.

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.

Clean Up:

Uncured silicone coating can be cleaned or equipment can be flushed with VM&P Naptha or Mineral Spirits.

Limited Warranty Information-Please Read Carefully:

A limited 50 year material warranty is available for this product.

Specification Writers: A copy of the Application Specification for this product may be obtained from Progressive Materials Customer Service.

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