TotalRoof™ the complete roofing system 100% Silicone Roof Coatings

Technical Product Data

22TR Low Solids Silicone Roof Coating

Basic Uses & Description:

22TR Low Solids Silicone Roof Coating is a one-component, moisture-curing silicone rubber roof coating system designed for use on sprayed-in-place polyurethane foam.

The system provides long-term protection because it resists weathering, aging, oxidation, wind-driven sand, rain and snow, the effects of ozone and ultraviolet radiation. The silicone membrane remains flexible even when exposed to extreme temperatures typically found on roofs. 22TR Low Solids Silicone Roof Coating is available in four standard colors, including:

- White
- Tan
- Light Gray
- Dark Gray

(Custom colors available upon request at an additional charge)

Composition and Materials:

22TR Low Solids Silicone Roof 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 levels in 1 to 3 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.

Typical Properties

As Supplied:

Appearance……White, Dark Gray, Light Gray, and Tan

Solids Content,
Percent by weight ASTM D-1644……82.44%
Percent by volume ASTM D-2697……68.9%(+/-2)
Specific Gravity, at 25°C
(77°F)……1.31
Tack-Free Time……10-20 mins.
Cure Time……1-3 hrs.
Volatile Organic Compounds……246 grams/liter

As Cured:

Durometer Hardness, Shore A, points ASTM D-2240…… 70
Tensile Strength, psi ASTM D-412……551 (+/- 25)
Elongation, percent ASTM D-412……186 (+/- 10)
Permeability[1], perms ASTM E-96……7.9
Tensile, Set at 100 percent elongation……Nil
Temperature Stability Range, °C (°F)…… - 37 to 100 (-35 to 212)
Accelerated Weathering, QUV, 5,000 hours
ASTM G 154……No degradation
Flame Spread ASTM E-108……Class A
Initial Solar Reflectivity[2], ASTM C-1549……87
Initial Thermal Emissivity[2], ASTM C-1371…… 90
SRI Value[2]……110

[1] 20 mils at 38°C (100°F) and 90 percent relative humidity
[2] Applies to LS 2201 white only

Total Roof Coatings
812-944-7771
812-944-7804 (Fax)

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Application:

Surfaces to be coated with 22TR Low Solids Silicone Roof 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.

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.

Storage and Shelf Life:

22TR Low Solids Silicone Roof 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. Please refer to product packaging.

Packaging Sizes:

22TR Low Solids Silicone Roof 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.

Specification Writers: A copy of the Application Specification for this product may be obtained from Total Roof Coatings Customer Service.