



THERMO-SIL™ 3200

TECHNICAL DATA SHEET

High Solids Silicone Roof Coating

Product Use and Design

Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating is a single-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. Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating is designed to withstand the damp heat and ultra-violet rays of humid environments.

Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating is used as a protective coating over polyurethane foam.

Product Characteristics

Standard Colors:	TS 3201 – WHITE TS 3202 – TAN TS 3203 – LIGHT GRAY TS 3204 – DARK GRAY	
Cool Roof Rating Council (CRRC) Product ID:	(3200 White) - 0770-0007	
Radiative Properties: (3200 White)	Solar Reflectance - Initial:	0.89
	Thermal Emittance - Initial:	0.90
Solar Reflective Index:	SRI - Initial:	113
	SRI - Aged:	90
Cure Time:	1-4 hours	
Tack Free Time:	1-2 hours	
Recoat Window:	2-4 hours	

Application 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. Thinning of this material is not recommended. For question regarding thinning to this material please contact a Huntsman Building Solutions Sales Representative or Technical Services for additional information.

Contact Huntsman Building Solutions Technical Service personnel for specific recommendations, pricing and availability of spray and auxiliary equipment.

Processing Parameters

Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating is a single-component, moisture curing silicone rubber roof coating which will freeze and become unusable at temperatures below 32°F. PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE. Do not store material at temperatures below 50°F. Do not apply Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating when ambient air and substrate temperatures fall below 50°F or when there is a possibility of temperature dropping below 32°F within a 24-hour period after application.

Physical Properties

Properties	Test Method/Requirements	Value
Tensile Strength:	ASTM D 2370	247 psi (±25)
Elongation:	ASTM D 2370	237% (±10)
Hardness (Shore A):	ASTM D 2240	37 (±2)
Permeability:	ASTM E-96	10.7 U.S. Perms @ 20mils
Solids by Volume:	ASTM D 2697	92% (±3)
Weight per Gallon:	ASTM D1475	10.3 (±.2)
Theoretical Coverage:	16-18 dry mils	1.25 gallon
Volatile Organic Compounds:		< 50 grams per liter
Flash Point:		141°F

Credentials/Certifications

- Underwriters Laboratories Inc. (UL 790) Rated
- Cool Roof Rating Council (CRRC) Rated

Surface Preparation & Priming

Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating may be applied by medium nap rollers, brushes, or by conventional or airless spray equipment. Airless spray application is most efficient whereas rolling or brushing may be best for touch-up, flashing and edge terminations or to fill voids, pinholes, holidays or cracks. Apply Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating only to clean, dry, sound surfaces, free of loose particles or other foreign matter. Apply only to roofs that have adequate positive drainage (i.e. a minimum slope of 1/8 inch per foot).

Product Application

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Product Handling:

Some separation may occur during shipment and storage, therefore the contents of each container should be thoroughly power mixed for ten (10) to fifteen (15) minutes before application. Product should never be thinned.

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.

Limitations

Do not apply over wet substrates or when inclement weather is imminent. Total cure of Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating requires complete evaporation of carrier. Cool temperatures and high humidity retard cure. Do not apply if climatic conditions prevent complete cure before rain, dew, or freezing temperatures. Thermo-Sil™ 3200 Series High Solids Silicone Roof Coating is not a vapor barrier coating and not recommended for use over most cold storage installations. Where a vapor barrier is required, contact Huntsman Building Solutions Technical Service Personnel for proper selection and installation procedures.

SHELF LIFE: 24 months from manufactured date when stored properly.

Packaging

U.S. MEASURES: 5-gal. pails, 55-gal. drums & 275-gal. totes.

WEIGHT PER U.S. GALLON: 11.65 lbs.

General Health & Safety Precautions

This product is intended for use by trained professional personnel. Safety Data Sheets are available and any individual who may come in contact with these products should read and understand the S.D.S. In case of emergency contact CARECHEM EMERGENCY NUMBER at (866) 928-0789.

WARNING: Avoid eye contact with the liquid or spray mist. Applicators should wear protective clothing, gloves and use protective equipment on face, hands and other exposed areas.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application. Contact Lapolla for a copy of the Respiratory Protection Program developed by OSHA.

INGESTION: Do not take internally. Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

DISCLAIMERS

The data presented herein is not intended for use by non-professional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. All guarantees and warranties as to products supplied by Huntsman Building Solutions, shall have only those guarantees and warranties expressed in writing by the manufacturer. The buyer's sole remedy as to any material claims will be against the applicator of the product. The aforementioned data on this product is to be used as a guide and is subject to change without notice. The information herein is believed to be reliable, but unknown risks may be present. NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING PATENT WARRANTIES OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE, ARE MADE BY LAPOLLA INDUSTRIES, INC. WITH RESPECT TO OUR PRODUCTS OR INFORMATION SET FORTH HEREIN.

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