THERM-O-SIL®
SILICONE COATING SYSTEM
TF 2000 SERIES

PRODUCT DESIGN

Therm-O-Sil Silicone Coating System is a moisture-curing silicone rubber roof coating system. The controlled flow properties of the coating allow a continuous, even film to be applied even on rough surfaces.

Once cured, **TF 2000** forms a tough, flexible membrane that is integral with the structure itself. When properly applied, the cured coating provides a weathertight seal that will protect polyurethane foam from degradation caused by weathering, aging, oxidation, wind-driven sand, rain and snow, the effects of ozone and ultraviolet radiation. The membrane remains flexible even after exposure to extremes of heat typically seen on roofs.

PRODUCT USE

TF 2000 is formulated for application over spray-applied polyurethane foam.

APPLICATION

Surfaces must be prepared and the coating applied per guide specifications. All surfaces must be clean, dry and frost-free before application started. **TF 2000** is applied in two coats of contrasting colors at a rate of at least 1-¼ gallons per 100 square feet for each coat, using the material as supplied. Apply using conventional, airless spray equipment or roller. Cure time for each coat may vary from 2 to 6 hours, depending on temperature and humidity. The minimum combined thickness of basecoat and topcoat must be 15 mils. Optional application of #11 standard roofing granules may be made according to printed instructions to improve fire rating, to provide non-slip service walk areas or for aesthetics. For best protection of polyurethane foam, the full polyurethane foam thickness and silicone basecoat should be applied the same day. For best results, apply at temperatures above 4°C (40°F).

PRODUCT ADVANTAGES

- **Provides Long-Term Protection**
- **Forms a Flexible Membrane that is Impervious to Water but has the Ability to "Breathe" Water Vapor**
- **Rapid Cure Permits Fast Construction**
- **Resists Weathering, Aging, Oxidation, Wind-Driven Sand, Rain and Snow, the Effects of Ozone, Ultraviolet Radiation, and Temperature Extremes Typical on Roofs**

PHYSICAL PROPERTIES

STANDARD COLORS:	TF 2001 – DARK GRAY TF 2002 – GRAY TF 2003 – BEIGE TF 2004 – WHITE
SOLIDS BY WEIGHT:	77%
SOLIDS BY VOLUME:	62%
TENSILE STRENGTH:	400psi
ELONGATION:	125%
DUROMETER HARDNESS:	43 Shore A
PERMEANCE:	3.7 U.S. Perms @ 20mils at 38°C (100°F)/90% RH
VOC:	300G/L
FLASH POINT (closed cup)	37.8°C / 100°F
SPECIFIC GRAVITY	1.23 at 25°C/77°F
WEATHEROMETER:	
Carbon-Arc, 4,000 hours:	No Degradation
QUV, 10,000:	No Degradation

APPROVALS / SPECIFICATIONS

FM Class I ratings over metal decks, existing BUR and Concrete Decks.

UL-790 Class A on non-combustible decks

Southern Building Code Congress International Standards (Report 9414)

ICC (Report 3735)

Building Officials and Codes Administrators International Standards (Report 86-135)

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MATERIAL SAFETY AND HANDLING

Storage:
Use the adequate ventilation. Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control MEKO within exposure guidelines or use respiratory protection. Avoid eye exposure. Avoid skin exposure. Avoid breathing vapor, mist, dust or fumes. Keep container closed. Do not take internally.

Keep container closed and away from heat, sparks and flame. Keep container closed and store away from water or moisture.

Personal Protection:
Use chemical worker's goggles, chemical protective gloves (neoprene or nitrile rubber). Use respiratory protection unless adequate local exhaust ventilation is provided.

First Aid

Inhalation: May cause respiratory tract irritation, may cause central nervous system effects, may be fatal. Move person to fresh air and provide oxygen if breathing is difficult. Seek medical attention.

Eye Contact: Irrigate with water for 15 minutes. Consult a physician if irritation persists.

Skin Contact: May cause allergic reaction, may be absorbed through the skin and cause nervous system effects and methamaglobinemia (reduces blood's ability to transport oxygen). Remove contaminated clothing. Remove as much of the material as possible by mechanical/waterless methods before washing with water. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Ingestion: Can enter lungs during swallowing or vomiting and cause lung inflammation. Do Not induce vomiting. Seek medical attention or nearest poison control center immediately.

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