TF-1900F
Fire Rated Roof Coating

Tiger Foam® **TF-1900F** is a high solids, heat resistant, water based, elastomeric coating material made from 100% acrylic polymers.

It is an ideal coating for all types of roofing including:

- Spray polyurethane foam (SPF)
- Built-up
- Single-ply
- Metal
- Concrete

Tiger Foam® **TF-1900F** prevents degradation to roofing caused by normal weathering, aging and ultraviolet exposure. It includes special fire retardants , mildew retardants and rust inhibitors that help extend the service life of any roofing system.

Tiger Foam® **TF-1900F** is easy and convenient to apply. It is fast drying, odor free and environmentally safe. It is also ideal for applications to walls, tanks, silos and many other surfaces.

Tested & Approved

Tiger Foam® TF-1900F is CRRC, Energy Star & LEED compliant.

ICC, UL, FM, Miami-Dade, California Fire Marshall approved

Tiger Foam® TF-1900F coatings were tested by the US Navy Civil Engineering Lab (NCEL) in an on-going environmental test from 1977-1990. Rated "excellent" and "recommended for use at any and all locations."

Tiger Foam® TF-1900F
an ideal cool roofing solution

A cool roof reflects and emits the sun's heat back into the sky instead of transferring it into the building.

A cool roof can:

- Increase indoor comfort by keeping a building cooler in the summer months.
- Reduce energy costs. Studies have shown that cool roof coating can lead to energy savings of 30-40%.
- Address air pollution and global warming concerns by lowering CO_2 and other emissions associated with fossil fuel generated electricity.
- Reduce "urban heat island effect" by reflecting heat back into the atmosphere.
- Pay for itself. The California energy commission cites cases of a 2-5 yr payback for installing a cool roof.

Source: Cool Roof Rating Council

6 Worthington Avenue • Spring Lake, New Jersey 07762

Sales and Technical Support:

Toll Free: 800.664.0063 • Fax: 877.415.1185 • International Phone: (001) 1+732.927.2090 • International Fax: (001) 1+732.927.2091

www.tigerfoam.com

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CHARACTERISTICS:

FLAME RETARDANT:
- ICC rated Class A
- UL 723rated Class I
- UL 790 rated Class A
- Meets coating requirements for UL Roof Systems #136, 181 and 206
- California Fire Marshall listed as a component of Class A rated roof systems and as a "general purpose fire retardant chemical coating."

CRRC & ENERGY STAR COMPLIANT:
- Solar Reflectance Index (SRI) 103%.
- 82% Solar Reflectance
- 91% Thermal Emittance

ADHESION:
- Rigid polyurethane roofing and insulation foam
- Asphalt shingle roofing
- Concrete, masonry, wood, metal

MOISTURE PROOF-VAPOR RETARDANT.
- Perm rating of 3.5 allows the dried film to "breathe"

WEATHER RESISTANT:
- Acrylic polymers extend durability
- Titanium dioxide blocks ultra-violet light effects
- Tested "Excellent" in on-going Naval Civil Engineering Laboratory study.
- Meets ASTM D-6083 standards

MILDEW RESISTANT:
- Contains mildew retardants to inhibit or prevent mildew growth.

APPROVALS/CODE COMPLIANCE:
- ICC : Research Report # 3182
- UL: File # R-8671, R-9303 Construction # 136, 181, 206
- CALIFORNIA FIRE MARSHALL:
  - ID# 4175-1321:100
  - ID#2280-1321:102
  - Class A rated roof system component
  - General purpose fire retardant coating
- CITY OF LOS ANGELES: Report # RR 24072
- MIAMI-DADE: #06-1204.03

SHELF LIFE: Unopened containers @ 50°-89°F 6 months

COLORS: White, Buff, Santa Fe Buff, Lt. Grey, Dk. Grey

CAUTION: Do not take internally. Keep out of reach of children.

PHYSICAL PROPERTIES:

SOLIDS CONTENT:		
By Weight		70+ 5%
By Volume		60+ 5%
WEIGHT /GAL:		11.9 lbs
COVERAGE:		
(Mils/100 sf./gal)		9.3
VISCOSITY: (Krebs)		96-102
ULTIMATE TENSILE STRENGTH:		
psi @ 75°F	ASTM D-412	280
psi @ 0°F	ASTM D-2370	299
ELONGATION AT BREAK:		
% @ 75°F	ASTM D-412	355
% @ 0°F	ASTM D-2370	255
SURFACE BURNING CHARACTERISTICS:		
Flame Spread ASTM E-84		10
Smoke Developed UL 723		15
PERMEANCE:		
(Perms @ 20 mils)	ASTM E-96(Procedure B)	3.5
SOLAR REFLECTANCE INDEX:		
ASTM E-1980		103%
SOLAR REFLECTANCE:		
ASTM E-903		82%
THERMAL EMITTANCE:		
ASTM E-408		91%
HARDNESS:		
ASTM D-2240 (Shore A)		60
ADHESION TO POLYURETHANE FOAM:		
ASTM D-413 (Cohesive Peak Failure)		
Dry 6.1	Wet	3.5
LOW TEMPERATURE FLEXIBILITY:		
(-150F) 1800 Bend-		
After 3000 hrs.		Pass
After 1 yr Outside		Pass
WATER ABSORPTION:		
ASTM D-2842 (168 hr. @ 75°F)		5%

INSTALLATION:
May be applied by brush, roller, or conventional airless spray equipment. Tools can be cleaned with a thorough water flush. Surface should be dry, clean and free of contaminants or oxidation. When applying over foam (SPF): to avoid damaging the skin of the foam, operator should wear soft soled shoes. The coating should be applied 2-72 hours after foam installation. It is recommended that operators wear sunglasses to avoid temporary blinding effects due to glare. Do not apply at ambient temperatures below 50°F.

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