



# THERM-O-FLEX™

## ACRYLIC COATING SYSTEM

### TF 1000 SERIES

#### PRODUCT DESIGN

**Therm-O-Flex Coating System™** is a premium quality, fluid-applied, elastomeric roof coating manufactured using advanced all-acrylic polymer technology. The fully adhered seamless membrane exhibits outstanding reflectivity, adhesion, flexibility and water resistance.

**TF 1000™** is designed to withstand the damp heat and ultra-violet rays of **humid environments**. Manufactured using the highest quality and most technologically advanced, 100% Acrylic Resins, **TF 1000™** is a water-based, non-toxic roof coating. This highly reflective roof coating protects roof substrates from moisture in a wide range of climates, is fire rated, UV resistant, and environmentally friendly.

#### PRODUCT USE

**TF 1000™** is formulated for application over spray-applied polyurethane foam.

#### PRODUCT APPLICATION

All surfaces should be dry, clean and free from foreign matter. **TF 1000™** can be applied by brush, roller or sprayer. Although coverage can vary significantly with each application, general recommendations are a minimum of 3 gallons per 100 square feet applied in 2 coats allowing each coat to cure prior to subsequent coat. Product cleans up easily with water. For further application details, please contact Customer Service to obtain a Roof Application Guide. Do not apply when temperatures are below 50°F, expected to drop below freezing or when rain is forecast. Do not store in areas that may be subjected to freezing temperatures.

#### WARRANTY

Warranties are available for **TF 1000™** in 5 (five) and 10 (ten) year increments. Contact a LaPolla Industries, Inc. customer service representative for further details.

#### PRODUCT ADVANTAGES

- ENVIRONMENTALLY SAFE
- UL APPROVED
- FM APPROVED
- EXCELLENT ADHESION
- EXCELLENT DIRT RESISTANCE
- QUICKSET VERSIONS AVAILABLE
- FIELD APPLIED AND PROVEN SINCE 1977

#### PHYSICAL PROPERTIES

**STANDARD COLORS:** TF 1001 – WHITE  
TF 1002 – GRAY  
TF 1003 – TAN

**TEXTURE:** Smooth

**GRADE:** Spray or Roll

**BASE:** 100% Acrylic

**SOLIDS BY WEIGHT:**

67% ( ±3 ) [ASTM D1644]

**SOLIDS BY VOLUME:**

55% ( ±3 ) [ASTM D2697]

**WEIGHT PER GALLON:**

11.95 ( ± .2 ) [ASTM D1475]

**TENSILE STRENGTH:**

300psi ( ±25 ) [ASTM D412]

**ELONGATION:**

260% ( ±25 ) [ASTM D412]

**DUROMETER HARDNESS:**

62 Shore A ( ±2 ) [ASTM D2240]

**TEAR RESISTANCE:**

85 lbs/in. ( ±2 ) [ASTM D624]

**ADHESION:** [ASTM C794 / D903]

7.0 plf PUF(dry)

3.6 plf PUF(wet)

1.4 plf Galv. Steel (dry)

3.0 plf Galv. Steel (wet)

**PERMEANCE:**

11 U.S. Perms @ 20mils [ASTM D1653A]

**VISCOSITY:**

110 K.U. ( ±8 )

**PHYSICAL PROPERTIES (Continued)**

**CODES/APPROVALS:**

Energy Star, ICC, UL,  
ASTM D6083

**REFLECTIVITY:**

NEW: 85% AGED: 78%

**EMMISSIVITY:** .89

**MATERIAL SAFETY & HANDLING**

**Storage:**

The minimum recommended storage temperature for this material is between 13°C/55°F and 32°C/90°F. Keep from freezing, material may coagulate.

**Personal Protection:**

Use safety glasses and chemically resistant gloves when handling materials.

**FIRST AID**

**Inhalation:** Remove to fresh air. Consult a physician.

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

**Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician.



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# THERM-O-FLEX™

## ACRYLIC COATING SYSTEM

### TF 750 SERIES

#### PRODUCT DESIGN

**Therm-O-Flex Coating System™** is a premium quality, fluid-applied, elastomeric roof coating manufactured using advanced all-acrylic polymer technology. The fully adhered seamless membrane exhibits outstanding reflectivity, adhesion, flexibility and water resistance.

**TF 750™** is designed to withstand the intense heat and ultra-violet rays of ***low humidity desert environments***. Manufactured using the highest quality and most technologically advanced, 100% Acrylic Resins, **TF 750™** is a water-based, non-toxic roof coating. This highly reflective roof coating protects roof substrates from moisture in a wide range of climates, is fire rated, UV resistant, and environmentally friendly.

#### PRODUCT USE

**TF 750™** is formulated for application over spray-applied polyurethane foam.

#### PRODUCT APPLICATION

All surfaces should be dry, clean and free from foreign matter. **TF 750™** can be applied by brush, roller or sprayer. Although coverage can vary significantly with each application, general recommendations are a minimum of 3 gallons per 100 square feet applied in 2 coats allowing each coat to cure prior to subsequent coat. Product cleans up easily with water. For further application details, please contact Customer Service to obtain a Roof Application Guide. Do not apply when temperatures are below 50°F, expected to drop below freezing or when rain is forecast. Do not store in areas that may be subjected to freezing temperatures.

#### WARRANTY

Warranties are available for **TF 750™** in 5 (five) and 10 (ten) year increments. Contact a LaPolla Industries, Inc. customer service representative for further details.

#### PRODUCT ADVANTAGES

- ENVIRONMENTALLY SAFE
- UL APPROVED
- FM APPROVED
- EXCELLENT ADHESION
- EXCELLENT DIRT RESISTANCE
- QUICKSET VERSIONS AVAILABLE
- FIELD APPLIED AND PROVEN SINCE 1977

#### PHYSICAL PROPERTIES

**STANDARD COLORS:** TF 751 – WHITE  
TF 752 – GRAY  
TF 753 – TAN

**TEXTURE:** Smooth

**GRADE:** Spray or Roll

**BASE:** 100% Acrylic

**SOLIDS BY WEIGHT:**  
67% ( ±3 ) [ASTM D1644]

**SOLIDS BY VOLUME:**  
55% ( ±3 ) [ASTM D2697]

**WEIGHT PER GALLON:**  
11.95 ( ± .2 ) [ASTM D1475]

**TENSILE STRENGTH:**  
300psi ( ±25 ) [ASTM D412]

**ELONGATION:**  
260% ( ±25 ) [ASTM D412]

**DUROMETER HARDNESS:**  
62 Shore A ( ±2 ) [ASTM D2240]

**TEAR RESISTANCE:**  
85 lbs/in. ( ±2 ) [ASTM D624]

**ADHESION:** [ASTM C794 / D903]  
7.0 plf PUF(dry)  
3.6 plf PUF(wet)  
1.4 plf Galv. Steel (dry)  
3.0 plf Galv. Steel (wet)

**PHYSICAL PROPERTIES (Continued)**

**PERMEANCE:**

11 U.S. Perms @ 20mils  
[ASTM D1653A]

**VISCOSITY:**

110 K.U. ( ±8 )

**CODES/APPROVALS:**

Energy Star, ICC, UL, ASTM D6083

**REFLECTIVITY:**

NEW: 85% AGED: 78%

**EMMISSIVITY:**

.89

**MATERIAL SAFETY & HANDLING**

**Storage:**

The minimum recommended storage temperature for this material is between 13°C/55°F and 32°C/90°F. Keep from freezing, material may coagulate.

**Personal Protection:**

Use safety glasses and chemically resistant gloves when handling materials.

**FIRST AID**

**Inhalation:** Move to fresh air. Consult a physician.

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

**Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician.



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# THERM-O-FLEX™

## ACRYLIC COATING SYSTEM

### TF 500 SERIES

#### PRODUCT DESIGN

**Therm-O-Flex Coating System™** is a fluid-applied, elastomeric roof coating manufactured using advanced all-acrylic polymer technology. The fully adhered seamless membrane exhibits outstanding reflectivity, adhesion, flexibility and water resistance.

**TF 500™** is designed to withstand the damp heat and ultra-violet rays of *humid environments*. Manufactured using the highest quality and most technologically advanced, 100% Acrylic Resins, **TF 500™** is a water-based, non-toxic roof coating. This highly reflective topcoat protects roof substrates from moisture in a wide range of climates, is fire rated, UV resistant, and environmentally friendly.

#### PRODUCT USE

**TF 500™** is formulated for application over spray-applied polyurethane foam.

#### PRODUCT APPLICATION

All surfaces should be dry, clean and free from foreign matter. **TF 500™** can be applied by brush, roller or sprayer. Although coverage can vary significantly with each application, general recommendations are a minimum of 3 gallons per 100 square feet applied in 2 coats allowing each coat to cure prior to subsequent coat. Product cleans up easily with water. For further application details, please contact Customer Service to obtain a Roof Application Guide. Do not apply when temperatures are below 50°F, expected to drop below freezing or when rain is forecast. Do not store in areas that may be subjected to freezing temperatures.

#### WARRANTY

Warranties are available for **TF 500™** in 5 (five) year increments. Contact a LaPolla Industries, Inc. customer service representative for further details.

#### PRODUCT ADVANTAGES

- ENVIRONMENTALLY SAFE
- EXCELLENT ADHESION
- EXCELLENT DIRT RESISTANCE
- QUICKSET VERSIONS AVAILABLE
- FIELD APPLIED AND PROVEN SINCE 1977

#### PHYSICAL PROPERTIES

**STANDARD COLORS:** TF 501 – WHITE  
TF 502 – GRAY  
TF 503 – TAN

**TEXTURE:** Smooth

**GRADE:** Spray or Roll

**BASE:** 100% Acrylic

**SOLIDS BY WEIGHT:**  
56% ( ±3 ) [ASTM D1644]

**SOLIDS BY VOLUME:**  
45% ( ±3 ) [ASTM D2697]

**WEIGHT PER GALLON:**  
11.65 ( ± .2 ) [ASTM D1475]

**TENSILE STRENGTH:**  
300psi ( ±25 ) [ASTM D412]

**ELONGATION:**  
260% ( ±25 ) [ASTM D412]

**DUROMETER HARDNESS:**  
62 Shore A ( ±2 ) [ASTM D2240]

**TEAR RESISTANCE:**  
85 lbs/in. ( ±2 ) [ASTM D624]

**ADHESION:** [ASTM C794 / D903]  
7.0 plf PUF(dry)  
3.6 plf PUF(wet)  
1.4 plf Galv. Steel (dry)  
3.0 plf Galv. Steel (wet)

**PHYSICAL PROPERTIES (Continued)****PERMEANCE:**

11 U.S. Perms @ 20mils  
[ASTM D1653A]

**VISCOSITY:**

110 K.U. ( ±8 )

**REFLECTIVITY:**

NEW: 85% AGED: 78%

**EMMISIVITY:**

.89

**MATERIAL SAFETY & HANDLING****Storage:**

The minimum recommended storage temperature for this material is between 13°C/55°F and 32°C/90°F. Keep from freezing, material may coagulate.

**Personal Protection:**

Use safety glasses and chemically resistant gloves when handling materials.

**FIRST AID**

**Inhalation:** Move to fresh air. Consult a physician.

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

**Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician.

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# THERM-O-FLEX™

## ACRYLIC COATING SYSTEM

### TF 250 SERIES

#### PRODUCT DESIGN

**Therm-O-Flex Coating System™** is a premium quality, fluid-applied, elastomeric roof coating manufactured using advanced all-acrylic polymer technology. The fully adhered seamless membrane exhibits outstanding reflectivity, adhesion, flexibility and water resistance.

**TF 250™** is designed to withstand the intense heat and ultra-violet rays of *low humidity desert environments*. Manufactured using the highest quality and most technologically advanced, 100% Acrylic Resins, **TF 250™** is a water-based, non-toxic roof coating. This highly reflective roof coating protects roof substrates from moisture in a wide range of climates, is fire rated, UV resistant, and environmentally friendly.

#### PRODUCT USE

**TF 250™** is formulated for application over spray-applied polyurethane foam.

#### PRODUCT APPLICATION

All surfaces should be dry, clean and free from foreign matter. **TF 250™** can be applied by brush, roller or sprayer. Although coverage can vary significantly with each application, general recommendations are a minimum of 3 gallons per 100 square feet applied in 2 coats allowing each coat to cure prior to subsequent coat. Product cleans up easily with water. For further application details, please contact Customer Service to obtain a Roof Application Guide. Do not apply when temperatures are below 50°F, expected to drop below freezing or when rain is forecast. Do not store in areas that may be subjected to freezing temperatures.

#### WARRANTY

Warranties are available for **TF 250™** in 5 (five) year increments. Contact a LaPolla Industries, Inc. customer service representative for further details.

#### PRODUCT ADVANTAGES

- ENVIRONMENTALLY SAFE
- EXCELLENT ADHESION
- EXCELLENT DIRT RESISTANCE
- QUICKSET VERSIONS AVAILABLE
- FIELD APPLIED AND PROVEN SINCE 1977

#### PHYSICAL PROPERTIES

**STANDARD COLORS:** TF 251 – WHITE  
TF 252 – GRAY  
TF 253 – TAN

**TEXTURE:** Smooth

**GRADE:** Spray or Roll

**BASE:** 100% Acrylic

**SOLIDS BY WEIGHT:**  
56% ( ±3 ) [ASTM D1644]

**SOLIDS BY VOLUME:**  
45% ( ±3 ) [ASTM D2697]

**WEIGHT PER GALLON:**  
11.65 ( ± .2 ) [ASTM D1475]

**TENSILE STRENGTH:**  
300psi ( ±25 ) [ASTM D412]

**ELONGATION:**  
260% ( ±25 ) [ASTM D412]

**DUROMETER HARDNESS:**  
62 Shore A ( ±2 ) [ASTM D2240]

**TEAR RESISTANCE:**  
85 lbs/in. ( ±2 ) [ASTM D624]

**ADHESION:** [ASTM C794 / D903]  
7.0 plf PUF(dry)  
3.6 plf PUF(wet)  
1.4 plf Galv. Steel (dry)  
3.0 plf Galv. Steel (wet)

**PHYSICAL PROPERTIES (Continued)****PERMEANCE:**

11 U.S. Perms @ 20mils  
[ASTM D1653A]

**VISCOSITY:**

110 K.U. ( ±8 )

**REFLECTIVITY:**

NEW: 85% AGED: 78%

**EMMISIVITY:**

.89

**MATERIAL SAFETY & HANDLING****Storage:**

The minimum recommended storage temperature for this material is between 13°C/55°F and 32°C/90°F. Keep from freezing, material may coagulate.

**Personal Protection:**

Use safety glasses and chemically resistant gloves when handling materials.

**FIRST AID**

**Inhalation:** Move to fresh air. Consult a physician.

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

**Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician.

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# THERM-O-FLEX™

## ACRYLIC COATING SYSTEM

### THERM-O-PRIME ACRYLIC ROOF PRIMER

#### PRODUCT DESIGN

**Therm-O-Prime Acrylic Roof Primer™** is a single component, water soluble, acrylic primer that promotes adhesion of Spray-in-Place Polyurethane Foam to a variety of roofing substrates including BUR, modified bitumen, concrete, masonry, galvanized metal and wood. Because of its dark color, **Therm-O-Prime™** evaporates dew and water vapor from the surface at a substantially faster rate than lighter colors. Increased solar radiation absorbed from the dark color can also increase SPF yields. The water based formula eliminates odor problems normally associated with solvent borne primers.

#### PRODUCT USE

Use **Therm-O-Prime™** as a bonding primer on properly prepared roof decks to tie-down residual dirt, dust and other small particle foreign debris to the substrate before SPF installations. Also use to prime “scarified” foam prior to new SPF applications. Recommended spreading rate is approximately 400 sq.ft. per gallon, depending on substrate and surface profile.

#### PRODUCT APPLICATION

All surfaces should be dry, clean and free from detrimental foreign matter that will adversely affect adhesion and product performance. Remove foreign surface deposits and/or organic growth using manual, mechanical or chemical cleaning techniques. Very dense, nonporous or chemically treated concrete requires overall etching or abrasive blasting to promote adhesion. Apply **Therm-O-Prime™** with a brush (polyester/nylon), roller (high quality 3/8” – 1/2” pile nap), garden sprayer or conventional or airless spray equipment. Airless spray equipment must be capable of maintaining a constant 1700 psi at the tip without surge when spraying through a 0.01” – 0.015” tip size.

Drying Time at 77°F (25°C) and 50% RH is 1/2 hour to

#### PRODUCT APPLICATION (Continued)

touch and 2 hours to topcoat. If applying primer in colder weather and/or higher humidity, ensure primer is thoroughly cured (no moisture left in the film) before foam is applied. Recommended wet film per coat is 4 mils. Recommended dry film per coat is 8 mils. Coverage rates will vary depending upon method of application, surface irregularities and porosity of substrate. Coverage figures do not include spray loss.

Apply only when air, product and surface temperatures are above 50°F (10°C). Avoid application when dew or condensation is likely to form or when rain threatens. Promptly clean brushes, rollers and spray equipment with warm soapy water. Give spray equipment a final cleaning with high quality paint thinner to remove moisture and prevent possible corrosion.

#### PRODUCT ADVANTAGES

- Provides a Sound Undercoat and Promotes Adhesion
- Increases Productivity
- Produces Greater Foam Yields
- No Solvent Fumes
- Simple Soap and Water Clean-up

#### PHYSICAL PROPERTIES

**COLOR:** Black

**BASE:** 100% Acrylic Latex

**SHEEN:** Dry film should have a flat to low sheen finish with no tendency to chalk or crumble

**SOLIDS BY WEIGHT:** 21.1%

**SOLIDS BY VOLUME:** 19.4%

**VOC:** 37 g/l

**FLASH POINT:** >250°F (PMCC)

**ENVIRONMENTAL STATEMENT:** Complies with current U.S. Federal Regulations concerning use of lead and/or mercury in paint. Nonphotochemically Reactive.

**LIMITATIONS:** Do not use as a finish coat. Allow new masonry to cure at least 30 days. The pH of the substrate should be less than 8 before priming.

## **MATERIAL SAFETY & HANDLING**

### **Storage:**

The minimum recommended storage temperature for this material is between 13°C/55°F and 32°C/90°F. Keep from freezing, material may coagulate.

### **Personal Protection:**

Use safety glasses and chemically resistant gloves when handling materials.

### **FIRST AID**

**Inhalation:** Move to fresh air. Consult a physician.

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

**Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician.

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# THERM-O-FLEX™

## ACRYLIC COATING SYSTEM

### TF 1500 HT SERIES

#### PRODUCT DESIGN

**Therm-O-Flex Coating System™** is a premium quality, High Tensile formulated, fluid-applied, elastomeric roof coating manufactured using advanced all-acrylic polymer technology. The fully adhered seamless membrane exhibits outstanding reflectivity, adhesion, flexibility and water resistance.

**TF 1500 HT™** is designed to withstand the intense heat and ultra-violet rays of *extreme desert environments*. Manufactured using the highest quality and most technologically advanced, 100% Acrylic Resins, **TF 1500 HT™** is a water-based, non-toxic roof coating. This highly reflective roof coating protects roof substrates from moisture in a wide range of climates is UV resistant and environmentally friendly.

#### PRODUCT USE

**TF 1500 HT™** is formulated for application over spray-applied polyurethane foam.

#### PRODUCT APPLICATION

All surfaces should be dry, clean and free from foreign matter. **TF 1500 HT™** can be applied by brush, roller or sprayer. Although coverage can vary significantly with each application, general recommendations are a minimum of 3 gallons per 100 square feet applied in 2 coats allowing each coat to cure prior to subsequent coat. Product cleans up easily with water. For further application details, please contact Custom Service to obtain a Roof Application Guide. Do not apply when temperatures are below 50°F, expected to drop below freezing or when rain is forecast. Do not store in areas that may be subjected to freezing temperatures.

#### WARRANTY

Warranties are available for **TF 1500 HT™** in 5 (five) and 10 (ten) year increments. Contact a LaPolla Industries, Inc. customer service representative for further details.

#### PRODUCT ADVANTAGES

- ENVIRONMENTALLY SAFE
- EXCELLENT ADHESION
- EXCELLENT DIRT RESISTANCE
- FIELD APPLIED AND PROVEN SINCE 1977
- FM APPROVED
- HIGH TENSILE PERFORMANCE FORMULATION

#### PHYSICAL PROPERTIES

**STANDARD COLORS:** TF 1501 – WHITE  
TF 1502 – GRAY  
TF 1503 – TAN

**TEXTURE:** Smooth

**GRADE:** Spray or Roll

**BASE:** 100% Acrylic

**SOLIDS BY WEIGHT:**  
64% ( ±3 ) [ASTM D1644]

**SOLIDS BY VOLUME:**  
54% ( ±3 ) [ASTM D2697]

**TENSILE STRENGTH:**  
675psi (±25) @ 70°F (21°C)  
[ASTM D412]

**ELONGATION:**  
455% (±25) @ 70°F (21°C)  
[ASTM D412]

**DUROMETER HARDNESS:**  
68-73 Shore A ( ±2 ) [ASTM D2240]

**PERMEANCE:**  
6.0 U.S. Perms @ 20mils  
[ASTM D1653A]

**REFLECTIVITY:**  
NEW: 85% AGED: 78%

**EMMISSIVITY:** .89

## **MATERIAL SAFETY & HANDLING**

### **Storage:**

The minimum recommended storage temperature for this material is between 13°C/55°F and 32°C/90°F. Keep from freezing, material may coagulate.

### **Personal Protection:**

Use safety glasses and chemically resistant gloves when handling materials.

### **FIRST AID**

**Inhalation:** Move to fresh air. Consult a physician.

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

**Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician.



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