



# 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%

**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.

To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. User must contact LaPolla Industries, Inc. to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to LaPolla Industries, Inc.'s quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY LAPOLLA INDUSTRIES, INC., EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.