

Thermo-Flex™ 1500HT

100% Acrylic Roof Coating System

Product Description

Thermo-Flex 1500HT is a technologically advanced, high solids, fire retardant, thixotropic, acrylic elastomeric coating uniquely formulated for the protection of polyurethane foam insulation. **Thermo-Flex 1500HT** is a premium quality, **High Tensile** formulation that also withstands the **damp heat and ultra-violet rays of humid environments.**

Thermo-Flex 1500HT is used as a protective coating over polyurethane foam.

Performance Characteristics

- Superior exterior durability and UV light resistance
- Severe Hail Rated with LPA Roofing Foam and Coating System
- Seamless, fully-adhered elastomeric membrane
- Water Resistant
- Excellent dirt pick-up resistance
- Low temperature flexibility down to -15°
- UL 790 Approved on multiple constructions
- Low maintenance/renewable

Product Characteristics	
Standard Colors:	TF 1501HT – White TF 1502HT– Light Gray TF 1503HT– Tan
Radiative Properties: (1001 White)	Solar Reflectance - Initial: .86 Solar Reflectance - Aged: .76 Thermal Emittance - Initial: .90 Thermal Emittance - Aged: .91
Solar Reflective Index: (1001 White)	SRI - Initial: 109 SRI - Aged: 88
Radiative Properties: (1002 Light Gray)	Solar Reflectance - Initial: .85 Solar Reflectance - Aged: .78 Thermal Emittance - Aged: .89
Radiative Properties: (1003 Tan)	Solar Reflectance - Initial: .85 Solar Reflectance - Aged: .78 Thermal Emittance - Aged: .89
Dry to Touch:	4 hours
Tack Free:	12 hours
Recoat Window:	12 hours

Application Equipment

Thermo-Flex 1500HT 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 used for touch-up, flashing and edge terminations or to fill voids, pinholes, holidays or cracks. Brush: Synthetic filament. Roller: 1^{1/4}" nap. Airless Spray: Equipment capable of maintaining a minimum of 0.027" or greater orifice tips with 2,300 PSI at the tip. Filter screens should be thirty-mesh or larger.

Contact Lapolla Industries Technical Service personnel for specific recommendations, pricing and availability of spray and auxiliary equipment.

Properties	Test Method/ Requirements	Value
Tensile Strength:	ASTM D2370	675psi (±25) @ 70°F
Elongation:	ASTM D2370	455% (±25) @ 70°F
Adhesion:	ASTM C794-D 903	7.0 plf PUF(dry) 3.6 plf PUF(wet) 1.4 plf Galv. Steel (dry) 3.0 plf Galv. Steel (wet)
Hardness (Shore A):	ASTM D2240	68-73 (±2)
Permeability:	ASTM D1653A	6.0 U.S. Perms @ 20mils
Solids by Weight:	ASTM D1644	64% (±3)
Solids by Volume:	ASTM D2697	54% (±3)
Weight per Gallon:	ASTM D1475	11.95 (±.2)
Theoretical Coverage:	13-14 dry mills	1.5 gallons
Viscosity (cps):	ASTM D 562	110 K.U. (±8)
Reflectivity:		NEW: 85% AGED: 78%
Emmissivity		.89

Surface Preparation & Priming

Apply only to roofs that have adequate positive drainage (i.e. a minimum slope of 1/8 inch per foot). This product is not intended for areas where ponding water may occur. All surfaces must be clean, dry, sound; free of loose and peeling coatings and mastics, grease, oil, efflorescence, curing agents, form release agents, dirt, mildew and other detrimental foreign matter that will adversely affect adhesion and product performance. A primer may be required subject to type and/or condition of substrate. If surface is one which requires an application of **TF Primer**, consult Lapolla Technical Service Personnel for specific primer recommendations and substrate preparation procedures.

Application Guidelines

Apply **TF 1000HT** directly to spray polyurethane foam on the same day as the installation whenever possible. Do not allow SPF to remain uncoated for more than 48 hours. Lower temperatures and higher humidity prolong drying and cure time. Apply only when air, surface, & product temperature is above 55 °F. **DO NOT** apply when temperatures may drop below the dew point or below 40 °F within 6 hours after application.

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Rev. Date 09/14/15

THERMO-FLEX™
ACRYLIC COATING SYSTEMS

Apply first coat of **TF 1000** over clean, dry surface. After a curing period of approximately three to eight hours (depending on humidity and temperature) apply second coat.

Avoid application late in the day when dew or condensation is likely to form or when rain is expected.

It is recommended that **TF 1500HT** be applied in multiple coats and in multi-directional (north-south, east-west) passes to ensure uniform film build. Backrolling sprayed material may be necessary to fill pinholes in substrate. Final cured dry film thickness must be free of voids, pinholes, holidays, cracks or blisters.

Apply in a minimum of 2 coats with each coat at a maximum rate of 1.5 gallons per 100 square feet, for a total minimum coating rate of 3 gallons per 100 square feet. Additional coats of 1.5 gallons maximum per 100 square feet may be applied to obtain the desired final thickness of coating. The minimum allowable dry mil thickness shall be no less than 24 mils. Granules may be broadcast into the final coating application at a rate of 35 – 40 pounds per 100 square feet. No foot traffic shall be permitted on the finished coated surface for 72 hours depending on curing conditions after application.

CLEAN UP: Promptly clean hands, tools, and equipment with warm soapy water.

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. **TF 1500HT** is a water-based elastomeric acrylic 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.

SHELF LIFE: One year 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.

Limitations

Do not use on surfaces demonstrating hydrostatic or high vapor pressure. This product is not intended for use in areas where ponding water may be present. Ponding water issues must be eliminated prior to the application of this coating.

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.

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