



Thermo-Flex 1000 guide specifications

07 55 53 Elastomeric Protected Membrane Roofing 07 55 56 Fluid-Applied Protected Membrane Roofing

Over PVC Single Ply

PART 1 - GENERAL

1.1 SUMMARY

- A. This specification covers the preparation and application to PVC single ply roof surfaces of a monolithic, spray-applied elastomeric acrylic coating system, for the purpose of preserving and sustaining the life of the existing roof system.
- B. The applicator shall furnish all labor, materials and equipment and perform all operations required asspecified.
- C. Manufacturer, suppliers and contractors shall be unencumbered with serious litigation and/or bankruptcy. Payments are to coincide with material and labor lien releases.

1.2 SUBMITTALS

ACTION SUBMITTALS / INFORMATIONAL SUBMITTALS

- A. MANUFACTURER'S DATA: Submit technical data sheets, independent testing reports, and application instructions and precautions.
- B. PRIOR APPROVAL: Materials other than that specified shall be submitted to the Architect/ownerfor approval no later than ten days prior to bid date. In requesting prior approval, it shall be necessary to submit:
 - 1. A letter of certification signed by an officer of the manufacturer, stating that the substitutematerial is equal to or better in features or performance, which the job requires, than the specified product will provide.
 - 2. Independent Laboratory test data giving physical property values.
 - 3. A coated 12" X 12" sample.

1.3 QUALITY ASSURANCE

- A. All roofing contractors and subcontractors bidding work shall be licensed by the State ContractorsLicense Board, and shall have a license currently in effect, which covers work called for in the specifications (where applicable).
- B. Qualified Applicators: Bidding and application shall be made only by contractors who are currently qualified by

the fluid applied material manufacturer for warranty projects. The contractor shall furnish to the owner a letter confirming that the contractor is an approved applicator for the materialsmanufacturer.

- C. The contractor shall have a minimum of three years experience in applying acrylic roof coatings and should be able to document, if requested, at least 500,000 square feet of successful applications using similar roofing materials as that specified.
- D. The building owner/architect shall reserve the right to accept the bid of their choice, which may not necessarily be the low bidder. The building owner/architect shall also reserve the right to reject anyand all bids.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original sealed containers, with seals and labels intact.
- B. Store materials in an enclosed space protected from weather and out of the direct rays of the sun.
- C. Protect from freezing during shipping and storage.
- D. All materials shall be stored in compliance with local safety requirements

1.5 SITE CONDITIONS

- A. All materials to be installed in strict accordance with all published safety, weather, or applicable regulations of the manufacturer and/or local, state, and/or federal agencies which have jurisdiction.
- **B.** Do not apply materials at temperatures below 50°F, when wind velocities exceed 12 mph, or whenthere is a possibility of temperatures falling below 32°F within a 24 hour period. Do not apply if weather conditions will not permit complete cure before rain, dew, fog, or freezing temperatures.
- C. Do not apply coating when the substrate temperature falls below 50°F.

1.6 SAFETY REQUIREMENTS

- A. All personnel spraying coating materials in exterior applications must wear acceptable organic respirators or other protective equipment to ensure good safety precautions at all times. Contractorshall perform all work in accordance with OSHA regulations and safety regulations governing thelocation of the jobsite.
- B. Proper disposal of waste materials and containers must be done in compliance with federal, state, and local regulatory agencies.

PART 2 - PRODUCTS

2.1 OWNER-SUPPLIED PRODUCTS

- A. Provide 100% Acrylic TF 1000 by Huntsman Building Solutions 3315 E Division St., Arlington, Texas 76011 Telephone 817-640-4900.
- B. Provide THERMO-PRIME MULTI-SUBSTRATE Primer by Huntsman Building Solutions 3315 E Division St., Arlington, Texas 76011. Telephone 817-640-4900

2.2 PRIMER

A. Shall be THERMO-PRIME MULTI-SUBSTRATE Primer, a water-based, acrylic emulsion primer for use on PVC surfaces to enhance adhesion of coatings and to stop plasticizer migration into coatings, as distributed by Huntsman Building Solutions.

2.3 SEAM TAPE

A. Shall be a self-adhesive butyl fabric-reinforced tape for use on sloped and vertical surfaces.

2.4 COATING

- A. TF 1000 is a technologically advanced, high solids, thixotropic, acrylic elastomeric coating uniquely formulated to withstand the intense heat and ultra-violet rays.
- **B.** Elastomeric roof coatings shall contain no migratory plasticizers, vegetable oils, marine oils orcementitious materials. Use of non-elastomeric resins is not permitted.
- C. The coating material shall meet the following minimum physical properties:

2.5 SUBSTITUTIONS

A. Fluid applied waterproofing materials such as cementitious coatings, asphaltic coatings, hypalons, and butyls are not acceptable substitutes for materials specified herein.

PART 3 - EXECUTION

3.1 PREPARATION OF SURFACES

- A. Areas to receive the sprayed elastomeric coating shall be securely fastened to the building structure.
- B. Remove any contaminants that will interfere with total adhesion of the coating system to thesubstrate.
- C. The entire surfaces shall be cleaned by pressure washing to remove all contaminants.
- **D.** All loose seams of existing roof system shall be sealed in accordance with the PVC manufacturer's recommendations. Seal all PVC single ply seams with butyl seam tape.
- E. Seal all HVAC duct work joints as needed with butyl seam tape.

3.2 APPLY RCS SYSTEM

- A. These recommendations are for minimum material usage applied under ideal circumstances. Theactual number of gallons needed per square may need to be increased. Wind conditions while spraying, surface texture, and uneven application can affect the number of gallons required.
- B. These recommendations assume that the deck has no deterioration and is in good, sound condition.
- C. Puddles of heavy coating on the roof are not acceptable.
- D. Although coverage can vary significantly with each application, general recommendations are 1.5gallons per 100 square feet applied in 2 coats allowing each coat to cure prior to subsequent coat.
- E. Precoat all seams with THERMO-PRIME MULTI-SUBSTRATE Primer gray base coat with 1 gallon per 100 square feet. Allow to dry.
- F. After thorough preparation, the entire roof shall receive the Restoration Coating System consisting of three gallons TF 1000 acrylic coating per square applied evenly in two separate coats.
 - 1. The first coat shall be spray or roller applied at the rate of 1½ gallons per square of TF 1000 gray base coat. Back roll initial coat.
 - 2. After thorough drying of the first coat the second coat shall be applied using a cross hatch technique. Apply TF 1000 white top coat at the rate of 1½ gallons per square.
- G. Newly installed coating system shall yield an average of 24 dry mils.
- H. All coating edges shall be cut evenly in a uniform manner to provide an aesthetically pleasing appearance.

3.3 CLEANING

A. At the end of each work day, remove rubbish, empty containers, rags, and other discarded items from the site. After completing work, clean glass and spattered surfaces. Remove spattered coatingsby washing, scraping, or other methods, being careful not to scratch or damage adjacent finished surfaces.

Section 4: Warranty

4.01 LIMITED PRODUCT WARRANTY

A. Huntsman Building Solutions is pleased to offer ten (10), fifteen (15) and twenty (20) year Limited Product warranties over foam insulation systems. These warranties are intended to protect the building owner from leaks due to product deterioration as a result of ordinary weather conditions. There is no fee for these warran- ties and the only requirement is the submittal of a Huntsman Building Solutions warranty request form. Third party inspections are not required. Specific conditions and limitations are identified in the warranty documents. Dry Film Thickness (DFT) and Huntsman Building Solutions varianty are as follows:

Minimum Coverage and Material Requirements

Ten Year Limited Product	Fifteen Year Limited Product	Twenty Year Limited Product		
Acrylic 24 DFT/3.0 gal	Acrylic 32 DFT/4.0 gal	Acrylic 36 DFT/4.5 gal		

4.02 LIMITED SYSTEM WARRANTY

Huntsman Building Solutions is also pleased to offer a ten (10), fifteen (15) and Twenty (20) year Limited System warranties for non-residential building projects. These warranties are intended to protect the building owner from leaks due to product deterioration as a result of ordinary weather conditions. There is a fee for these warranties and an inspection is required. Additionally, to be eligible for a system warranty, a Pre-Job Warranty Request Form must be filled out, submitted and approved by Huntsman Building Solutions prior to the start of the project. Minimum square footage eligible for a System Warranty is 15,000 square feet. Dry film thickness (DFT) and Huntsman Building Solutions product minimum requirements are as follows:

Minimum Coverage and Material Requirements

Ten Year Limited System		Fifteen Year Limited System	Twenty Year Limited System		
Acrylic	32 Mils/4				

4.03 Warranty Program for Acrylic Restoration Coatings

Huntsman Building Solutions offers a selection of Ten (10) year fifteen (15) and twenty (20) year Restoration Coating Limited Product and Limited System warranties for building owners. The following chart will assist you in choosing the appropriate warranty for your project.

Minimum Dry Film Thickness (mil) and HBS Product Quantity (gallon) Requirements. *

Duration	10-YEAR Limited		15-YEAR Limited		20-YEAR Limited	
	PRODUCT/SYSTEM		PRODUCT/SYSTEM		PRODUCT/SYSTEM	
EPDM	24	3.0	30	4.00	40	4.5

*Minimum dry film thickness requirements do not include joints, seams, flashings, protrusions, drains other details. Gallons shown are approximate and do not include loss during application.

End of Section

