



THERMOLASTIC[®] SUN STOP[®] WALL RESTORATION SYSTEM

GUIDE SPECIFICATION

PART 1 GENERAL

1.1 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install a spray or roller applied high-performance fluid-applied system as outlined in this specification to create a seamless weatherproof membrane system over masonry surfaces.
- B. The manufacturer's application instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Work Specified Elsewhere:
 - 1. Section 03 30 00 - Cast-in-Place Concrete.
 - 2. Section 03 40 00 - Precast Concrete.
 - 3. Section 04 20 00 - Unit Masonry.
 - 4. Section 07 24 00 - Exterior Insulation and Finish Systems.
 - 5. Section 07 90 00 - Joint Protection.

1.2 SYSTEM DESCRIPTION

- A. THERMOLASTIC[®] SUN STOP[®] shall be a complete system of compatible materials supplied by THERMO MATERIALS[®] to create a seamless weatherproof membrane system.
- B. THERMOLASTIC[®] SUN STOP[®] shall be designated for application on the specific type of surface indicated on the drawings.

1.3 SUBMITTALS

- A. Product Data: Submit THERMO MATERIALS[®] product literature, MSDS and installation instructions.
- B. Project Reference List: Submit list of projects as required by this specification.
- C. Samples: Submit samples of specified high-performance fluid-applied membrane system. Samples shall be construed as examples of finished color and texture of the system only.
- D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the high-performance elastomeric coating system.
- E. Warranty: Submit copy of manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: THERMOLASTIC[®] SUN STOP[®] as supplied by THERMO MATERIALS[®] is approved for use on this project.
- B. Applicator Qualifications: Applicators shall be approved to install specified system.
- C. Requirements of Regulatory Agencies: Materials used in the decorative concrete and masonry membrane system shall meet Federal, State and local VOC regulations.
- D. Upon completion of the THERMOLASTIC[®] SUN STOP[®] installation, an inspection by THERMO MATERIALS[®] or its designated third party inspection company may be required. Consult THERMO MATERIALS[®] for details.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.
- B. Storage and Handling: Recommended material storage temperature is 75°F (23.8°C). Handle products to avoid damage to container. Do not store for long periods in direct sunlight. Protect all materials from freezing.

1.6 PROJECT CONDITIONS

- A. Environmental Conditions:
1. Do not proceed with application of fluid-applied materials when surface or ambient temperature is less than 40°F (4.4°C). No coating material shall be applied if weather will not permit it to dry prior to exposure to precipitation or freezing temperatures.
 2. Do not apply material unless surface to receive fluid-applied membrane is clean and dry.

1.7 WARRANTY

- A. Upon request, THERMO MATERIALS® shall offer the manufacturer's standard warranty upon receipt of a properly executed warranty request form.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. THERMO MATERIALS®, 301 Walnut Springs Rd., Lindale, TX 75771, Toll Free (800) 882-7007, Fax (903) 881-8787, www.thermomaterials.com.

2.2 MATERIALS

- A. Cleaners, Primers, Membranes, Sealants:
1. Previously Painted, EIFS, Chalky or Porous Concrete/Masonry Primer: Thermoclean® Surface Cleaner, and plenty of water.
 2. New Concrete, Masonry, and Wood Primer: Thermoclean® Surface Cleaner.
 3. Ferrous Metal Primer: SEBS Acrylic Primer.
 4. Copper, Aluminum, Lead, Etc. Primer: SEBS Acrylic Primer.
 5. Galvanized Metal Primer: SEBS Acrylic Primer.
- B. Patching Compound: Thermolastic® T-60 Acrylic Flashing Compound.
- C. Fluid-applied membrane: Thermolastic® Sun Stop® Wall Membrane.
- D. Sealant: Thermolastic® Acrylic Caulk.
- E. Reinforcement Fabric: Thermopolyester SB-075 or Self-adhering THERMO TAPE.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical performance requirements for the fluid-applied membrane system to be used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM		
PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Tensile Strength	ASTM D2370	200 psi
Elongation	ASTM D2370	150%
Water Resistance	ASTM D471	<20%
Water-vapor Permeance @ 10 mils	ASTM D1653	12 perms
Adhesion	ASTM D903	5 lb/in+

Light Reflectance (Smooth Surface)	ASTM E97-82	92%
Accelerated Weathering (3,000 hrs)	ASTM D822	No Chalking Discoloration or Cracking
Fungus and Mildew Resistance	ASTM D3274	No Growth
98 MPH Wind-Driven Rain	TT-CC 555B	Passes
Carbon-Dioxide Diffusion	PR EN 1062-6	Sd>100 meters

2.4 ACCESSORIES

- A. Miscellaneous materials such as backer rods or compression tubes shall be approved by the manufacturer of the high-performance fluid-applied membrane. All materials used shall be applied in accordance with its manufacturer's recommendations.

2.5 MIXES

- A. In multi-pail applications, mix contents of each new pail into partially used pail to ensure color consistency and a smooth transition from pail to pail.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Concrete (Tilt-up, Poured-in-place, and Pre-cast): Verify that the work done under other sections meets the following requirements:
1. Concrete is free of ridges and sharp projections.
 2. New concrete should be cured for a minimum of 28 days. Water-cured treatment of concrete is preferred. **Resin or wax based curing compounds should not be used.** Non-compatible curing agents must be removed prior to application.
 3. Concrete surface pH level must not be higher than 11 prior to coating.
 4. All loose concrete, or mortar, is removed.
 5. Damaged areas of concrete, including bug holes, voids and air pockets, should be repaired using a cement-based patching compound upon approval of the manufacturer.
- B. Masonry (Brick, Low Density Block, Cinder Block, and Stucco): Verify that the work done under other sections meets the following requirements:
1. New masonry should be allowed to dry for a minimum of 28 days.
 2. Mortar joints are sound and without voids.
 3. Defective mortar or stucco areas should be repaired using a cement-based patching compound upon approval of the manufacturer.
- C. Exterior Insulated and Finish Systems (EIFS): Verify that the work done under other sections meets the following requirements:
1. Surface should be clean and free of grease and contaminants.
 2. Caulk joints should be checked, primed and re-caulked with specified sealant.
 3. Defective areas should be repaired following EIFS manufacturers specified repair procedure.

3.2 PREPARATION

- A. Protection:
1. The overspray from fluid-applied material can carry considerable distances and care should be taken to do the following:
 - a. Post warning signs a minimum of 100 feet from the work area.
 - b. Cover all intake vents near the work area.
 - c. Set up wind breaks when needed.
 - d. Minimize or exclude all personnel not directly involved with membrane application.
 - e. Provide adequate ventilation.
 2. Protect plants, vegetation and animals which might be affected by fluid-applied membrane. Use drop cloths or masking as required.
- B. Surface Preparation:

1. **Cleaning:** Surfaces should be cleaned with Thermoclean[®] cleaner, and free of oil or grease. All loose materials and foreign matter should be removed from the substrate. All mildew and algae must be removed from the substrate with an additional solution of one tablespoon of Thermoclean[®] cleaner, and two pints of liquid bleach in one gallon of water (.125 to .25 liters per liter). Rinse thoroughly with clear water. Surfaces should be pressure-washed and allowed to thoroughly dry prior to application.
2. **Crack and Cold Joints:** Visible hairline cracks (up to 1/16" in width) in masonry should be pretreated with a detail application of Thermolastic[®] T-60 Patching compound and Thermopolyester SB-075 or Self-adhering THERMO TAPE (20 linear foot average per gallon of completed 3-coursed detail @ 6" wide). Large cracks and construction joints should be filled with Thermolastic[®] Acrylic sealant prior to application. Detail filled cracks with a liberal application of Thermolastic[®] T-60 Patching compound, and Thermopolyester SB-075 or Self-adhering THERMO TAPE.
3. **Control Joints:** Seal secondary control joints with Thermolastic[®] Acrylic sealant.

3.3 APPLICATION

- A. **Primer, Cleaner:**
 1. Previously Painted, EIFS, Chalky or Porous Concrete/Masonry Primer: Thermoclean[®] Surface Cleaner, and plenty of water @ 400/SF per gallon.
 2. New Concrete, Masonry, and Wood Primer: Thermoclean[®] Surface Cleaner, and plenty of water @ 400/SF per gallon.
 3. Ferrous Metal Primer: SEBS Acrylic Primer.
 4. Copper, Aluminum, Lead, Etc. Primer: SEBS Acrylic Primer.
 5. Galvanized Metal Primer: SEBS Acrylic Primer.
- B. **Fluid-Applied Membrane Material (Wall System):** Apply THERMOLASTIC[®] SUN STOP[®] base membrane at a rate of 1 gallon per 100/SF. When dry, apply THERMOLASTIC[®] SUN STOP[®] top membrane at a rate of 1 gallon per 100/SF in strict accordance with the application procedures outlined by THERMO MATERIALS[®] and exhibit a pinhole free surface. Note: If pinholes are present, additional fluid-applied membrane will be required. Coverage rate is approximately 100 square feet per gallon **depending on texture and porosity of substrate.**
- C. **Optional Fluid-Applied Material:** For outstanding color retention and reduced dirt pickup, apply one pass of THERMOLASTIC[®] SUN STOP[®] membrane at a rate of 1 gallon per 100/SF per gallon on all surfaces.

****Completed system to yield a DFT value of 10-14, or to average 12 DFT cured when using this published guide specification****

3.4 CLEANING

- A. Clean any splatters or spills with water before material dries. Once dried, THERMOLASTIC[®] SUN STOP[®] will be difficult to remove and may require mechanical removal.
- B. Remove temporary coverings and protection from adjacent work areas.
- C. Clean up and properly dispose of debris remaining on project site related to application.

END OF SECTION

The information, data and suggestions contained herein are believed to be reliable, based upon our knowledge and experience; however, it is expressly declared that Seller does not guarantee the result to be obtained in Buyer's process. **SELLER HEREBY EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED** as to any and all products and/or suggestions described herein, whether such products are used alone or in combination with other materials. Buyer must make its own determination of the suitability of any product for its use, and the completeness of any information contained herein. Nothing contained herein shall be construed to constitute inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. Applicator is an independent contractor of, and should under no circumstances be viewed as an employee or agent of, THERMO MATERIALS[®]. SunStop[®]Wall08312011.

THERMO MATERIALS[®]

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