

## FLINTLASTIC® ULTRA POLY SMS™ BASE SHEET

### SBS MODIFIED ASPHALT COATED POLYESTER BASE SHEET

#### Product Information



**Product Use:** FLINTLASTIC ULTRA POLY SMS Base Sheet is designed for use as a base sheet for both hot and cold applied SBS modified bitumen or built-up roofing systems. It is suitable for use in the construction of various types of roof membrane assemblies for both new construction and reroofing, over a variety of substrates. FLINTLASTIC ULTRA POLY SMS Base Sheet will provide additional strength when used as the first ply over nailable, non-nailable and insulated substrates. In addition, it will perform as a venting base sheet when spot mopped over approved insulations. Also suitable as a mid ply in multi-layer systems or as a torched-down base sheet over a gypsum coverboard.

**Precautions:** FLINTLASTIC ULTRA POLY SMS Base Sheet may be mechanically attached or applied in either hot asphalt or approved cold adhesive such as CertainTeed's FlintBond™ or torched over approved substrates, depending on system design and selection. Rolls should be stored upright, off ground, completely protected from the weather. Roof decks shall be structurally sound, dry, smooth and meet or exceed minimum requirements of the deck manufacturer, local code and CertainTeed. Additional specifications and precautions are contained in the CertainTeed Commercial Roof Systems Manual.

**Product Composition and Features:** FLINTLASTIC ULTRA POLY SMS Base Sheet is manufactured using a high performance, non-woven polyester mat which is impregnated and coated with a superior grade modified bitumen compound. It is lightly surfaced with a mineral release agent. The polyester base mat provides excellent strength and tear and puncture resistance. FLINTLASTIC ULTRA POLY SMS Base Sheet is pliable and will conform to most surfaces for ease of application.

<b>Roll Dimensions:</b>	39 <sup>3</sup> / <sub>8</sub> " x 32' 10"
<b>Coverage:</b>	One square
<b>Approximate Weight:</b>	90 lbs. per roll
<b>Top Surface:</b>	Fine sand
<b>Back Surface:</b>	Fine sand

**Applicable Standards:** Meets or exceeds ASTM D6164, Grade S, Type I. FLINTLASTIC ULTRA POLY SMS is listed by Underwriters Laboratories for use in various Class A, B, and C roof assemblies, ICC-ES (ESR-1388), Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL 2533) and Texas Department of Insurance (RC-47).

**Modified Bitumen Coating:** Non-oxidized (flux) asphalt, blended with an elastomeric, thermoplastic styrene-butadiene-styrene (SBS) polymer.

**Support Mat:** A high performance, puncture and tear resistant, non-woven polyester mat.

#### Technical Data

<b>Test Description</b>	<b>Test Method</b>	<b>Results</b>
<b>Softening Point:</b>	ASTM D36	260°F
<b>Tensile Strength:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	75/ 55 lbs./in.
	@ 0 +/- 3.6°F MD/XD	100/ 90 lbs./in.
<b>Elongation:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	75%/ 55%
	@ 0 +/- 3.6°F MD/XD	45%/ 65%
<b>Dimensional Stability:</b>	ASTM D5147 MD/XD	0.2%/ 0.1%
<b>Low Temperature Flex:</b>	ASTM D5147	Pass @ -15°F
<b>Compound Stability:</b>	ASTM D5147	Min. 250°F
<b>Tear Strength:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	110/90 lbs.
<b>Thickness:</b>	ASTM D5147	3.7 mm (148 mils)

#### Product Application

Roof systems constructed with FLINTLASTIC ULTRA POLY SMS Base Sheet as the base ply or mid ply shall be applied in accordance with installation procedures contained in the CertainTeed Commercial Roof Systems Manual. The following information is intended for general information purposes only and is not all-inclusive. Refer also to the product labels and Material Safety Data Sheets prior to product use.

## **Product Application (continued)**

**Preparation:** Substrates to receive a roof system shall be firmly attached, smooth, dry, clean and free of sharp projections and depressions. Flashing details shall be in place, ready to receive roofing with roof accessories available prior to application of materials. Substrates requiring priming shall be primed with suitable asphalt primer such as CertainTeed's FlintPrime™ and be allowed to completely dry. Substrates shall provide positive drainage. Roof insulation shall be tapered to drains.

**Installation:** FLINTLASTIC ULTRA POLY SMS Base Sheet shall be installed with 2" side laps and 4" end laps, with end laps diagonally staggered not less than 3 feet apart. For nailable substrates, mechanically fasten FLINTLASTIC ULTRA POLY SMS Base Sheet 9" o.c. at side laps and 18" o.c. in two rows, 12" in from each edge with approved fasteners. For non-nailable or insulated substrates, FLINTLASTIC ULTRA POLY SMS Base Sheet shall be set in either spot or solid mopping of bitumen as required by the CertainTeed Commercial Roof Systems Manual. Spot mopping, when specified, shall be applied in 9" diameter circles, 24" o.c. in all directions. Solid moppings shall be applied at the rate of 25 lbs. per 100 square feet. Bitumen shall be heated and applied within temperature guidelines as set forth by CertainTeed according to type and grade. For mop applications overlap sidelaps 3".

**Precautions:** Cold weather applications require special handling to prevent damage to the rolls and to ensure satisfactory installation. Do not apply roofing systems over improperly prepared substrates or substrates which contain moisture.

**Maintenance:** CertainTeed's Commercial Roofing Systems do not require any additional special maintenance beyond normal roof maintenance procedures. CertainTeed recommends regular roof maintenance and inspection to determine the condition of drains, flashings and other similar items, and to prolong the life expectancy of the roof system.

## **Warranties**

CertainTeed offers a number of different types of Roof Membrane Warranties designed to meet the building owner's specific requirements. Please contact your nearest CertainTeed office for additional information and requirements.

## **Technical Assistance and Services**

CertainTeed provides technical assistance in the design, selection, specification and application techniques for all CertainTeed Commercial Roof Systems. Architectural and field representatives are available for consultation within each region.

For more information, contact CertainTeed's Customer Support at 800-396-8134 x2.

## **Caution: Fire Hazard**

Torch down application of this product may create a risk of FIRE, including SMOLDERING FIRES. The roofing applicator is solely responsible for ensuring and enforcing safe and proper application of CertainTeed products by competent and qualified personnel. Only properly trained roofing professionals are authorized to install this product.

Never apply flame directly to combustible materials or allow the flame to enter into hidden or protected areas that may contain combustible materials. Follow all local code requirements. Have a Class A-B-C fire extinguisher available to each applicator. Thoroughly inspect the job site whenever torching equipment has been used. Be certain that all chances of a fire have been eliminated.

Refer to the CertainTeed Commercial Roof Systems Manual, Midwestern Roofing Contractors Association (MRCA) CERTA program, National LP Gas Association, National Roofing Contractors Association (NRCA), National Fire Protection Association (NFPA), and Asphalt Roofing Manufacturers Association (ARMA) for further information and safety recommendations.

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