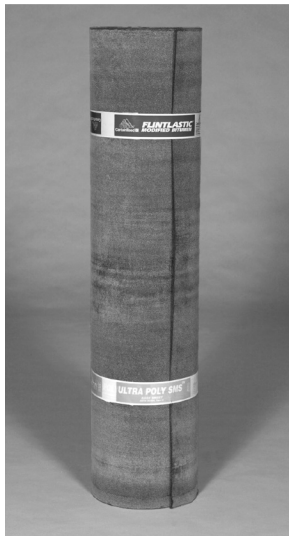


## FLINTLASTIC® ULTRA POLY SMS BASE SHEET

### PREMIUM, VERSATILE SBS MODIFIED BITUMEN POLYESTER BASE SHEET

#### Product Information



**Product Use:** Flintlastic® Ultra Poly SMS Base Sheet is designed for use as a base ply 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 an anchor sheet over nailable or the first ply over 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 midply 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 FlintBond® or torched over approved substrates, depending on system design and selection. Rolls should be stored upright off the ground and completely protected from the weather. Roof decks must 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 Specifications.

**Product Composition and Features:** Flintlastic Ultra Poly SMS Base Sheet is manufactured using a high performance, stress-resistant polyester mat that 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>Nominal Coverage:</b>	One square
<b>Approximate Weight:</b>	89 lbs. per roll
<b>Top and Back Surface:</b>	Fine sand, release agent

**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, Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL 2533 and FL 16709) and Texas Department of Insurance (RC-47).

#### Technical Data

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

**Support Mat:** High performance, stress-resistant polyester mat.

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
<b>Softening Point:</b>	ASTM D36	260°F
<b>Tensile Strength:</b>	ASTM D5147	
	@ 73.4 +/- 3.60F MD/XD	85/60 lbs./in.
	@ 0 +/- 3.60F MD/XD	100/90 lbs./in.
<b>Elongation:</b>	ASTM D5147	
	@ 73.4 +/- 3.60F MD/XD	40%/55%
	@ 0 +/- 3.60F MD/XD	30%/40%
<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)

\*NOTE: Published results are nominal production values confirmed by independent laboratory testing.



## Product Application

Roof systems constructed with Flintlastic Ultra Poly SMS Base Sheet as the base ply or midply must be applied in accordance with installation procedures listed in the CertainTeed Commercial Roof Systems Specifications. The following information is intended for general information purposes only and is not all-inclusive. Also refer to the product labels and Material Safety Data Sheets prior to product use.

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

**Installation:** Flintlastic Ultra Poly SMS Base Sheet must be installed with 2" side laps and 4" end laps, with end laps diagonally staggered not less than 3' 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 must be set in either spot or solid mopping of bitumen as required by the CertainTeed Commercial Roof Systems Specifications. Spot mopping, when specified, must be applied in 9" diameter circles, 24" o.c. in all directions. Solid moppings must be applied at the rate of 25 lbs. per 100 square feet. Bitumen must be heated and applied within temperature guidelines as set forth by CertainTeed according to type and grade. For mop applications, overlap side laps 3".

**Precautions:** Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply roofing systems over improperly prepared substrates or substrates that 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 Limited (product only) and No Dollar Limit (NDL, product and workmanship) warranties. Warranty type and duration is dependent on roof system configuration and contractor selection. Only CertainTeed Gold and Silver Star Contractors are eligible to apply for NDL warranties on specific roof projects. For more information, see CertainTeed Commercial Roof Systems Specifications or contact Commercial Roofing Technical Services.

## 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 Commercial Roofing Technical Services 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 Specifications, 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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