

FLINTLASTIC® STA PLUS

PREMIUM APP-MODIFIED BITUMEN VERSATILE POLYESTER MEMBRANE WITH SMOOTH SURFACE

Product Information



Product Use: Flintlastic STA Plus is designed for use as a robust base, interply or cap membrane (warranty may require coating) over various types of substrates for both new construction and reroofing installations. It is suitable for most low sloped roof decks and may be used for roof system flashings including wall treatments, base flashings and field flashings.

Limitations: Flintlastic STA Plus is intended for torch application only and should not be exposed to adhesives or solvent-based materials. 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 Specifications.

Product Composition and Features: Flintlastic modified bitumen membranes are manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for the production of modified bitumen products. Flintlastic STA Plus is produced with a high performance, stress-resistant polyester mat that is impregnated and coated with a superior grade, modified bitumen compound.

Roll Dimensions: 39³/₈" x 32' 10"
Coverage: One square
Approximate Weight: 98 lbs. per roll
Top Surface: Fine sand, release agent
Back Surface: Torchable polyethylene film

Applicable Standards: Meets ASTM D6222, Grade S, Type I. Flintlastic STA Plus is approved by Underwriters Laboratories for use in various Class A, B and C roof assemblies, ICC-ES (ESR-1388), Factory Mutual, Florida Building Code Statewide Approval (FL 2533), and Texas Department of Insurance (RC-47).

Modified Bitumen Coating: Non-oxidized (flux) asphalt, blended with various thermoplastic atactic polypropylene polymers and co-polymers.

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

Technical Data

Test Description	Test Method	Results*
Softening Point:	ASTM D36	310°F
Tensile Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	105/90 lbs./in.
	@ 0 +/- 3.6°F MD/XD	141/118 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	60%/65%
	@ 0 +/- 3.6°F MD/XD	19%/23%
Dimensional Stability:	ASTM D5147 MD/XD	0.5%/0.3%
Low Temperature Flex:	ASTM D5147	Pass @ 8°F
Compound Stability:	ASTM D5147	250°F
Thickness:	ASTM D5147	4.5 mm (180 mils)
Tear Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	130/105 lbs.

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

Product Application

Flintlastic modified bitumen roofing systems shall be applied in accordance with installation procedures contained in the CertainTeed Commercial Roof Systems Specifications. The following information is intended for general information purposes only and is not all-inclusive.

Preparation: Substrates to receive a roof system shall be firmly attached, smooth, dry, clean and free of sharp projections and depressions. Substrates requiring priming shall be primed with asphalt primer such as CertainTeed's FlintPrime™ and be allowed to completely dry. Substrates shall provide positive drainage. Roof shall be tapered to drains.

Installation: Unless otherwise specified by CertainTeed, install one ply of Glasbase™ or other CertainTeed-approved alternate base sheet lapping 2" on sides and 4" on ends. Base sheet shall be mechanically fastened to nailable substrates, and either solid or spot mopped in hot asphalt to non-nailable or insulated substrates as specified in the CertainTeed Commercial Roof Systems Specifications. Apply base sheet in such a manner to provide and maintain a minimum 6" offset between side and end laps of base ply and Flintlastic finishing membrane. Over the base ply, install one ply of Flintlastic STA Plus lapping 3" on sides and 6" on ends with end laps diagonally staggered not less than 3 feet apart. Side and end laps should be inspected to ensure a minimum 3/8" flow of modified compound has been achieved.

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 that contain moisture. Follow all safety recommendations relating to the use and maintenance of liquid propane gas torches and equipment. Refer to the CertainTeed Commercial Roof Systems Specifications for additional safety information.

Maintenance: Flintlastic Roof Systems do not require any additional 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 CertainTeed 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 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's roofing 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.



CertainTeed Corporation

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20 Moores Road Malvern, PA 19355 Professional: 800-233-8990 Consumer: 800-782-8777 certainteed.com

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