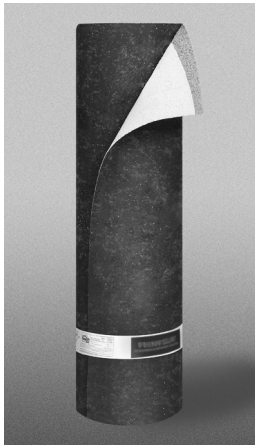


FLINTLASTIC® FR-P COOLSTAR® FIRE-RESISTANT, SBS MODIFIED BITUMEN POLYESTER CAP SHEET WITH HIGHLY REFLECTIVE MINERAL SURFACE



Product Information



Product Use: Flintlastic® FR-P CoolStar® is designed for use as a cap membrane in SBS modified bitumen roof system assemblies over various types of substrates for both new construction and reroofing installations. It is suitable for most low slope roofing applications and may be used for roof system flashings including wall treatments, base flashings and field flashings. It is surfaced with highly reflective CoolStar granules.

Limitations: Flintlastic FR-P CoolStar is intended for hot asphalt application or approved cold process adhesives such as FlintBond®. 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 listed in the CertainTeed Commercial Roof Systems Specifications.

Product Composition and Features: Flintlastic FR-P CoolStar products are manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for the production of modified bitumen roofing membrane. Flintlastic FR-P CoolStar is produced with a high performance, stress-resistant polyester mat and a superior grade fire-retardant modified bitumen compound.

Roll Dimensions:	39 $\frac{3}{8}$ " X 32' 10"
Nominal Coverage:	One square
Approximate Weight:	102 lbs. per roll
Top Surface:	Highly reflective CoolStar granules
Back Surface:	Fine sand, release agent

Applicable Standards: Meets ASTM D6164, Grade G, Type I. Flintlastic FR-P CoolStar is approved by Underwriters Laboratories for use in various Class A, B and C roof assemblies, ICC (ESR-1388), Factory Mutual, Miami-Dade Florida Building Code Statewide Approval (FL 2533 and FL 16709) and Texas Department of Insurance (RC-47). Flintlastic FR-P CoolStar is an approved ENERGY STAR® product. Flintlastic FR-P CoolStar also is listed by the Cool Roof Rating Council (CRRC). The CRRC product ID is 0668-0081. Initial Solar Reflectance: 0.70; Aged Solar Reflectance: 0.59; Initial Thermal Emittance: 0.90.



Technical Data

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

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

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
Solar Reflectance Index (SRI) Initial/Aged:	ASTM E1980	86/69
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4°F ±3.6° MD/XD	105/65 lbs./in.
	@ 0°F ±3.6° MD/XD	145/85 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4°F ±3.6° MD/XD	65%/75%
	@ 0°F ±3.6° MD/XD	45%/50%
Dimensional Stability:	ASTM D5147 MD/XD	0.4%/0.6%
Low Temperature Flex:	ASTM D5147	Pass @ -20°F
Compound Stability:	ASTM D5147	250°F
Thickness:	ASTM D5147	4.2 mm (168 mils)
Tear Strength:	ASTM D5147	
	@ 73.4°F ±3.6° MD/XD	130/90 lbs.

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



Product Application

Flintlastic modified bitumen roofing systems must 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 must be firmly attached, smooth, dry, clean and free of sharp projections and depressions. Flashing must be in place and roof accessories available prior to application of materials. Substrates requiring priming must be primed with asphalt primer such as FlintPrime® and be allowed to completely dry. Substrates must provide positive drainage. Roof must 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 must 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 as to provide and maintain a minimum 6" offset between sides and end laps of base ply and Flintlastic inter ply layers or FR-P. If specified, install appropriate Flintlastic interply layers in accordance with CertainTeed specifications over the base sheet. Finally, install one ply of Flintlastic FR-P CoolStar lapping 3" on sides and 6" on ends, with end laps diagonally staggered not less than 3' apart. Side and end laps must be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately 3/8" beyond lap edge. Asphalt bleed-out may be touched up with CoolStar granules.

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. Asphalt temperature at point of application must not fall below 425°F to ensure maximum adhesion between Flintlastic finishing membrane and base ply.

Maintenance: Flintlastic roof systems do not require any additional maintenance beyond normal, routine 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 roofing 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 guidelines for Flintlastic 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.

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www.certainteed.com <http://blog.certainteed.com>

CertainTeed Corporation
20 Moores Road
Malvern, PA 19355

Professional: 800-233-8990
Consumer: 800-782-8777

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