

FLINTLASTIC® FR-P™ COOLSTAR™

SBS MODIFIED BITUMEN FIRE-RESISTANT ROLL ROOFING PRODUCTS WITH REFLECTANT COOLSTAR COATING



Product Information



Product Use: FLINTLASTIC FR-P COOLSTAR is designed for use as a roofing membrane cap sheet 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.

Limitations: FLINTLASTIC FR-P COOLSTAR is intended for hot asphalt application or approved cold process adhesives such as CertainTeed's FlintBond™. 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 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, non-woven polyester mat and a superior grade fire-retardant modified bitumen compound.

Roll Size: 39³/₈" X 33' 11"

Coverage*: One square
(*When applied according to CertainTeed's specification)

Approximate Weight: 110 lbs. per roll

Top Surface: Mineral granules and flexible acrylic-based CoolStar coating

Back Surface: Light sand finish, release agent

Applicable Standards: 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, by Miami-Dade Florida Building Code Statewide Approval (FL479), LA Research Report (#25082), Texas Department of Insurance, and Cool Roof Rating Council. Consult www.certainteed.com/lowslopetechinfo for details. Meets ASTM D6164, Grade G, Type I.

	Solar Reflectance	Initial 0.76	Weathered Pending
	Thermal Emittance	0.92	Pending
	Rated Product ID	0023	
	Licensed Manufacturer ID	0668	
Classification	Production Line		
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

Suggest Solar Reflective Index (SRI) = 94.2

Technical Data

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

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

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4°F ± 3.6° MD/XD	94/70 lbs./in.
	@ 0°F ± 3.6° MD/XD	128/103 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4°F ± 3.6° MD/XD	64%/74%
	@ 0°F ± 3.6° MD/XD	48%/62%
Dimensional Stability:	ASTM D5147 MD/XD	0.5%/0.3%
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	110/70 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 Manual. 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. Flashing shall be in place and roof accessories available prior to application of materials. Substrates requiring priming shall be primed with asphalt primer such as 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 Manual. Apply base sheet in such a manner to provide and maintain a minimum 6" offset between side and endlaps of base ply and FLINTLASTIC® interply 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 4¼" on sides and 6" on ends with endlaps diagonally staggered not less than 3 feet apart. Side and endlaps shall be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately ¾" beyond lap edge. Asphalt bleed-out may be touched up with CoolStar Touch-Up Coating or other white elastomeric coatings.

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. Asphalt temperature at point of application shall 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 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 guidelines for FLINTLASTIC roof systems. Architectural and field representatives are available for consultation within each region.

For more information, contact CertainTeed's Customer Support at 800-233-8990.

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