

## FLINTLASTIC® GMS™ COOLSTAR™

**SBS MODIFIED BITUMEN ROLL ROOFING WITH REFLECTANT COOLSTAR COATING**



### Product Information



**Product Use:** FLINTLASTIC GMS COOLSTAR is designed for use as a roofing membrane 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 GMS COOLSTAR is intended for application using hot asphalt or approved cold process adhesives such as FlintBond™. Rolls should be stored upright, off ground, completely protected against 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 modified bitumen products are manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for the production of modified bitumen products. FLINTLASTIC GMS COOLSTAR is produced with a high performance, non-woven polyester mat which is impregnated and coated with a superior grade, modified bitumen compound, and surfaced with a flexible, acrylic-based CoolStar coating.

**Size:** 39<sup>3</sup>/<sub>8</sub>" X 32'10"

**Coverage\*:** One square

(\*When applied according to CertainTeed's specification)

**Approximate Weight:** 99 lbs. per roll

**Top Surface:** Mineral granule and flexible, acrylic-based CoolStar coating

**Back Surface:** light sand finish, release agent

**Applicable Standards:** FLINTLASTIC GMS COOLSTAR is approved by Underwriters

Laboratories for use in various Class A, B, and C roof assemblies with ICC-ES (ESR-1388), Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL479), Texas Department of Insurance (RC-47) and Cool Roof Rating Council. Meets ASTM D6164, Grade G, Type I. FLINTLASTIC GMS COOLSTAR is an approved ENERGY STAR® product. Initial Solar Reflectance: 0.71; Aged Solar Reflectance: 0.63; Initial Thermal Emittance: 0.88. Consult [www.certainteed.com/lowslopetechinfo](http://www.certainteed.com/lowslopetechinfo) for details.

	Initial		Weathered	
	Solar Reflectance	0.71	Pending	Pending
<b>Thermal Emittance</b>	<b>0.88</b>			
Rated Product ID				0031
Licensed Manufacturer ID				0668
Classification				Production Line

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.

### Technical Data

**Modified Bitumen Coating:** Non-oxidized (flux) asphalt blended with various styrene-butadiene-styrene polymers.

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

Test Description	Test Method	Results*
Solar Reflectance Index (SRI):	ASTM E1980	86.5
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	94/70 lbs./in.
	@ 0 +/- 3.6°F MD/XD	128/103 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	64%/74%
	@ 0 +/- 3.6°F 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	4.0mm (160 mils)
Tear Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F 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. 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 end laps of base ply and FLINTLASTIC interply layers or finishing membrane. If specified, install appropriate FLINTLASTIC interply layers in accordance with CertainTeed specifications over the base sheet. Finally, install one ply of FLINTLASTIC GMS COOLSTAR, lapping 3" on sides and 6" on ends with end laps diagonally staggered not less than 3 feet apart. Side and end laps shall 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 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. Refer to the CertainTeed Commercial Roof Systems Manual for additional safety information.

**Maintenance:** FLINTLASTIC Roof Systems do not require any additional maintenance beyond normal yearly 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 of 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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