

FLINTLASTIC® GTS™ COOLSTAR™

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



Product Information



Product Use: FLINTLASTIC GTS 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 slope roofing applications and may be used for roof system flashings including wall treatments, base flashings and field flashings.

Limitations: FLINTLASTIC GTS COOLSTAR 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 Manual.

Product Composition and Features: FLINTLASTIC GTS 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 GTS 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.

Roll Size: 39³/₈" X 24'9"
Coverage*: ³/₄ square

(*When applied according to CertainTeed's specification)

Approximate Weight: 94 lbs. per roll
Top Surface: Mineral granules and flexible, acrylic-based CoolStar coating
Back Surface: Torchable polyethylene film

Applicable Standards: FLINTLASTIC GTS COOLSTAR is approved by Underwriters Laboratories for use in various Class A, B, and C roof assemblies, 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. FLINTLASTIC GTS COOLSTAR is an approved ENERGY STAR® product. Initial Star Reflectance: 0.76; Aged Solar Reflectance: 0.63; Initial Thermal Emittance: 0.86. Meets ASTM D6164, Grade G, Type II. Consult www.certainteed.com/lowslopetechinfo for details.

	Solar Reflectance	Initial 0.76	Weathered Pending
	Thermal Emittance	0.86	Pending
Rated Product ID		0031	
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>			

Technical Data

Modified Bitumen Coating: Non-oxidized (flux) asphalt blended with a compatible elastomeric styrene-butadiene-styrene polymer and select inert fillers.

Support Mat: Non-woven polyester mat.

Test Description	Test Method	Results*
Solar Reflectance Index (SRI)	ASTM E1980	93.1
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	149/94 lbs./in.
	@ 0 +/- 3.6°F MD/XD	175/134 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	79%/81%
	@ 0 +/- 3.6°F MD/XD	56%/66%
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	4.5mm (180 mils)
Tear Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	150/115 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 depressions and sharp projections. Substrates requiring priming shall be primed with asphalt primer and be allowed to completely dry. Substrates shall provide positive drainage. Roof insulation shall be tapered to drains.

Installation: Unless otherwise specified by CertainTeed, install one ply of GLASBASE or ALL WEATHER/EMPIRE 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 finishing membrane. Over the base ply, install one ply of FLINTLASTIC GTS lapping 3" on sides and 6" on ends with endlaps diagonally staggered not less than 3 feet apart. Side and endlaps should be inspected to ensure an approximately 1/8" flow of modified compound has been achieved. Note that torching SBS is very different than torching APP. The key point is to make the backside of the SBS membrane just shiny. At that stage, the SBS modified compound is softened sufficiently to adhere aggressively. If the SBS modified asphalt shows signs of flow, the material has been overheated. Asphalt bleed-out may be touched up with CoolStar Touch-Up Coating or other white elastomeric coatings.

Appropriate surface preparation is essential when making end laps and side laps meet with this product. After determining the appropriate lap width, place a 4"- 6" wide length of scrap membrane parallel to and defining the joint area to be lapped. The scrap piece will ensure that the laps will look clean by protecting the white coating on the remainder of the membrane from heat damage. Using a heat gun or detail torch, gently heat the granulated surface in the lap area. Once the coating begins to melt and bubble, gently scrape off the white coating and the granules underneath, being careful not to damage the internal reinforcement. While scraping will remove some asphaltic coating, aim to remove as little as possible. The result will be a lap area that is ready to form a watertight joint.

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. Follow all safety recommendations relating to the use and maintenance of liquid propane gas torches and equipment.

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 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 of CertainTeed's Commercial 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.

ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:

EXTERIOR: ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE
INTERIOR: INSULATION • GYPSUM • CEILINGS

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482

Professional: 800-233-8990
www.certainteed.com

CertainTeed 