

## FLINTLASTIC® GTA-FR™ COOLSTAR™

**MINERAL SURFACED FIRE RESISTANT, APP MODIFIED BITUMEN  
ROLL ROOFING WITH REFLECTANT COOLSTAR COATING**



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### Product Information



**Product Use:** FLINTLASTIC GTA-FR COOLSTAR is designed for use as a roofing membrane cap sheet in APP modified bitumen roof system assemblies over various types of substrates for both new construction and reroofing installations. It is suitable for most low slope roof applications and may be used for roof system flashings including wall treatments, base flashings and field flashings.

**Limitations:** FLINTLASTIC GTA-FR 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 GTA-FR products are manufactured on state-of-the-art dedicated roofing lines that were exclusively designed for the production of modified bitumen roofing membrane. FLINTLASTIC GTA-FR COOLSTAR is produced with a high performance, non-woven polyester mat and a superior grade fire-resistant modified bitumen compound.

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

**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:** Torchable polyethylene film

**Applicable Standards:** FLINTLASTIC GTA-FR 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 479), LA Research Report (#25082), Texas Department of Insurance and Cool Roof Rating Council. Consult [www.certainteed.com/lowslopetechinfo](http://www.certainteed.com/lowslopetechinfo) for details. Meets ASTM D6222, Grade G, Type I.

	Initial	Weathered
<b>Solar Reflectance</b>	<b>0.75</b>	<b>Pending</b>
<b>Thermal Emittance</b>	<b>0.92</b>	<b>Pending</b>
Rated Product ID	0022	
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.

**Suggest Solar Reflective Index (SRI) = 92.8**

### Technical Data

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

**Support Mat:** 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	310°F
Tensile Strength:	ASTM D5147	
	@ 73.4°F ± 3.6° MD / XD	106 / 92 lbs. per in.
	@ 0°F ± 3.6° MD / XD	133 / 116 lbs. per in.
Elongation:	ASTM D5147	
	@ 73.4°F ± 3.6° MD / XD	57% / 62%
	@ 0°F ± 3.6° MD / XD	20% / 22%
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	4.2mm (168 mils)
Tear Strength:	ASTM D5147	
	@ 73.4°F ± 3.6° MD / XD	120 / 95 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 endlaps of base ply and FLINTLASTIC membrane. If specified, apply Flintlastic STA or STA Plus as an interply layer. Finally, install one ply of FLINTLASTIC GTA-FR COOLSTAR lapping 3 1/4" on all sides and 6" on ends with endlaps diagonally staggered not less than 3 feet apart. Membrane sidelaps shall be offset from sidelaps of underlying plies. Side and endlaps should be inspected to ensure a minimum 3/8" flow of modified compound has been achieved. Asphalt bleed-out may be touched up 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. Refer to the CertainTeed Commercial Roof Systems Manual for additional safety information.

**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 roof system.

## 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 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 Manual, 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.

## 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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