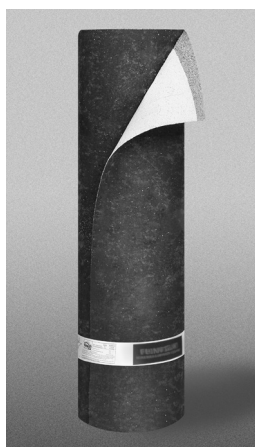


FLINTLASTIC® GTS-FR COOLSTAR®

**FIRE-RESISTANTE, SBS MODIFIED BITUMEN POLYESTER
CAP SHEET WITH HIGHLY REFLECTIVE MINERAL
SURFACE FOR TORCH APPLICATIONS**



Product Information



Product Use: Flintlastic® GTS-FR CoolStar® is designed for use as a cap 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-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 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 contained in the CertainTeed Commercial Roof Systems Specifications.

Product Composition and Features: Flintlastic GTS-FR 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-FR CoolStar is produced with a high performance, extra-tough, stress-resistant polyester mat that is impregnated and coated with a superior grade, modified bitumen compound and surfaced with highly reflective CoolStar granules.

Roll Dimensions:	39 ³ / ₈ " X 32' 10"
Nominal Coverage:	One square
Approximate Weight:	105 lbs. per roll
Top Surface:	Highly reflective CoolStar granules
Back Surface:	Torchable polyethylene film

Applicable Standards: Meets ASTM D6164, Grade G, Type II. Flintlastic GTS-FR CoolStar is approved by Underwriters Laboratories for use in various Class A, B and C roof assemblies and Florida Building Code Statewide Approval (FL 2533 and FL 16709). Flintlastic GTS-FR CoolStar is an approved ENERGY STAR® product. Flintlastic GTS-FR 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 a compatible elastomeric styrene-butadiene-styrene polymer and select inert fillers.

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

Test Description	Test Method	Results*
Solar Reflectance Index (SRI) Initial/Aged:	ASTM E1980	86/69
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	125/70 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	85%/100%
Dimensional Stability:	ASTM D5147 MD/XD	0.5%
Low Temperature Flex:	ASTM D5147	Pass @ 0°F
Compound Stability:	ASTM D5147	250°F
Thickness:	ASTM D5147	4.0 mm (160 mils)
Tear Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	165/115 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 depressions and sharp projections. Substrates requiring priming must be primed with asphalt primer and be allowed to completely dry. Substrates must provide positive drainage. Roof insulation must 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 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 side and end laps of base ply and Flintlastic finishing membrane. Over the base ply, install one ply of Flintlastic GTS-FR lapping 3" on sides and 6" on ends, with end laps diagonally staggered not less than 3' apart. Side and end laps 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 bleedout 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. 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 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 of CertainTeed's Commercial 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.

Caution: Fire Hazard

Torch-down 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 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 Specifications, 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.

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