

FLINTLASTIC® WHITE DIAMOND GTA™ COOLSTAR™

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



Product Information



Product Use: FLINTLASTIC WHITE DIAMOND GTA 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 and field flashings.

Limitations: FLINTLASTIC WHITE DIAMOND GTA 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 WHITE DIAMOND GTA COOLSTAR is manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for production of modified bitumen products. FLINTLASTIC WHITE DIAMOND GTA COOLSTAR is produced with a high performance, non-woven polyester mat and a superior grade, modified bitumen compound and surfaced with a flexible, acrylic-based CoolStar coating.

Sizes: 39 3/8" X 32'10"

Coverage*: One square

(*When applied according to CertainTeed's specification)

Approximate Weight: 100 lbs. per roll

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

Back Surface: Torchable Polyethylene Film

Applicable Standards: FLINTLASTIC WHITE DIAMOND GTA COOLSTAR is approved by Underwriters Laboratories for use in various A, B, or C roof assemblies, ICC(ESR-1388) Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL 479), Texas Department of Insurance (RC-47) and Cool Roof Rating Council. FLINTLASTIC WHITE DIAMOND GTA COOLSTAR is an approved ENERGY STAR® product. Initial Solar Reflectance: 0.77; Aged Solar Reflectance: 0.63; Initial Thermal Emissivity: 0.86. Consult www.certainteed.com/lowslopetechinfo for details. Meets ASTM D6222 Grade G, Type I.

	Solar Reflectance	Initial 0.77	Weathered Pending
	Thermal Emittance	0.86	Pending
	Rated Product ID	0027	
	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 various thermoplastic atactic polypropylene polymers and co-polymers.

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

Test Description	Test Method	Results*
Solar Reflectance Index (SRI):	ASTM E1980	94.5
Softening Point:	ASTM D36	310°F
Tensile Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	106/92 lbs./in.
	@ 0 +/- 3.6°F MD/XD	133/116 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	57%/62%
	@ 0 +/- 3.6°F 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	4.0mm (160mils.)
Tear Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F 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 CertainTeed's FlintPrime™ and be allowed to completely dry. Substrates shall provide positive drainage. Roof shall be tapered to drains.

Installation: 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 finishing membrane. Over the base ply, install one ply of FLINTLASTIC WHITE DIAMOND GTA COOLSTAR lapping 3" on sides and 6" on ends with end laps diagonally staggered not less than 3 feet apart. Side and end laps should be inspected to ensure a minimum ⅜" flow of modified compound has been achieved. 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. 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.

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's 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. 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 for all CertainTeed 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.

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