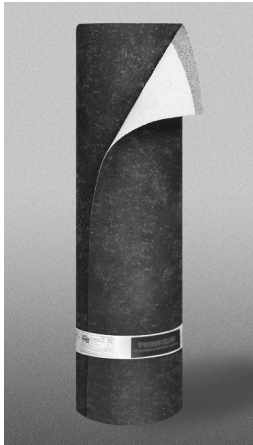


FLINTLASTIC® GMS COOLSTAR®

**SBS MODIFIED BITUMEN POLYESTER CAP SHEET WITH
HIGHLY REFLECTIVE MINERAL SURFACE**



Product Information



Product Use: Flintlastic® GMS 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 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 the ground and completely protected against 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 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, 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: | 96 lbs. per roll |
| Top Surface: | Highly reflective CoolStar granules |
| Back Surface: | Fine sand, release agent |

Applicable Standards: Meets ASTM D6164, Grade G, Type I. 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 (FL 2533 and FL 16709) and Texas Department of Insurance (RC-47). Flintlastic GMS CoolStar is an approved ENERGY STAR® product. Flintlastic GMS 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 various styrene-butadiene-styrene polymers.

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

| <u>Test Description</u> | <u>Test Method</u> | <u>Results*</u> |
|--|--|-------------------|
| 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 | 90/65 lbs./in. |
| | @ 0 ⁺ / ₋ 3.6°F MD/XD | 125/75 lbs./in. |
| Elongation: | ASTM D5147 | |
| | @ 73.4 ⁺ / ₋ 3.6°F MD/XD | 60%/120% |
| | @ 0 ⁺ / ₋ 3.6°F MD/XD | 35%/35% |
| Dimensional Stability: | ASTM D5147 MD/XD | 0.1%/0.1% |
| Low Temperature Flex: | ASTM D5147 | Pass @ -20°F |
| Compound Stability: | ASTM D5147 | 250°F |
| Thickness: | ASTM D5147 | 3.7 mm (145 mils) |
| Tear Strength: | ASTM D5147 | |
| | @ 73.4 ⁺ / ₋ 3.6°F MD/XD | 135/100 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 sharp projections and depressions. Substrates requiring priming must be primed with asphalt primer such as FlintPrime® and be allowed to completely dry. Substrates must provide positive drainage. Roof must 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 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 inter ply 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' apart. Side and end laps must 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 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. Asphalt temperature at point of application must not fall below 425°F to ensure maximum adhesion between Flintlastic finishing membrane and base ply. Refer to the CertainTeed Commercial Roof Systems Specifications 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 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 techniques of Flintlastic 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.

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www.certainteed.com <http://blog.certainteed.com>

CertainTeed Corporation
20 Moores Road
Malvern, PA 19355

Professional: 800-233-8990
Consumer: 800-782-8777

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