

FLINTLASTIC® PREMIUM GMS™ COOLSTAR™

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



Product Information



Product Use: FLINTLASTIC PREMIUM GMS COOLSTAR is designed for use as a roofing membrane cap sheet 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 PREMIUM GMS COOLSTAR is intended for application using hot asphalt or approved cold process adhesives such as CertainTeed's FlintBond™. 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 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 PREMIUM GMS COOLSTAR is produced with a heavy-duty, high performance, nonwoven polyester mat and a superior grade, modified bitumen compound and surfaced with a flexible, acrylic-based CoolStar coating.

Roll Dimensions: 39 3/8" X 32'10"

Coverage*: One square


(*When applied according to CertainTeed's specification)

Approximate Weight: 106 lbs. per roll

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

Back Surface: Light Sand Finish, release agent

Applicable Standards: FLINTLASTIC PREMIUM GMS is approved by Underwriters Laboratories for use in various Class A, B, and C roof assemblies, by 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 PREMIUM GMS is an approved ENERGY STAR® product. Initial Solar Reflectance: 0.74; Aged Solar Reflectance: 0.63; Initial Thermal Emissivity: 0.88. Consult www.certainteed.com/lowlopetechinfo for details. Meets ASTM D6164, Grade G, Type II.

| | | | |
|---|--------------------------|---------------------|--------------------------|
|  | Solar Reflectance | Initial 0.74 | Weathered Pending |
| | Thermal Emittance | 0.88 | Pending |
| | Rated Product ID | 0030 | |
| | 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 an elastomeric thermoplastic styrene-butadiene-styrene polymer.

Support Mat: Heavy-duty, high performance, puncture and tear resistant, nonwoven polyester mat.

| Test Description | Test Method | Results* |
|--------------------------------|------------------------|------------------|
| Solar Reflectance Index (SRI): | ASTM E1980 | 90.7 |
| 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 | 179/134 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 @ -15°F |
| Compound Stability: | ASTM D5147 | 250°F |
| Thickness: | ASTM D5147 | 4.2mm (165 mils) |
| Tear Strength: | ASTM D5147 @73°F MD/XD | 182/145 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. Flashing details shall be in place, ready to receive roofing with roof accessories available prior to application of materials. 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 FLEXIGLAS™ BASE, FLEXIGLAS FR BASE, GLASBASE® or other CertainTeed approved base sheet lapping 2" on sides and 4" on ends or as specified by CertainTeed. 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, solid mop one ply of FLINTLASTIC PREMIUM GMS lapping 3" on sides and 6" on ends with endlaps diagonally staggered not less than 3 feet apart. Side and endlaps shall 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 Touch-Up Coating or other white elastomeric coatings.

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. Asphalt temperature at point of application shall not fall below 425°F to ensure maximum adhesion between FLINTLASTIC modified bitumen cap sheet and base ply.

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 techniques of 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.

ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

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

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

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

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

Rev 7/10 ©2007 CertainTeed Corporation, Printed in U.S.A.
Code No. COMM-204

