

## FLINTLASTIC® BASE 20 T

### FIRE-RESISTANT, SBS MODIFIED BITUMEN FIBERGLASS BASE SHEET FOR TORCH APPLICATIONS

#### Product Information

**Product Use:** Flintlastic® Base 20 T is a base sheet utilized in two-ply or multi-layer modified bitumen fire rated roofing systems. It is suitable for use in the construction of various types of roof membrane assemblies for both new construction and recovery over a variety of substrates. Flintlastic Base 20 T is reinforced with a tough fibrous glass fabric.

**Precautions:** Flintlastic Base 20 T is intended for torch application. 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 Base 20 T is manufactured on a heavy duty fiberglass reinforced mat that receives a heavy coating of weathering grade, rubberized asphalt. It is manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for the production of modified bitumen products.

<b>Roll Dimensions:</b>	39 <sup>5</sup> / <sub>8</sub> " X 33'
<b>Nominal Coverage:</b>	One square
<b>Approximate Weight:</b>	80 lbs. per roll
<b>Top Surface:</b>	Fine sand, release agent
<b>Back Surface:</b>	Torchable polyester film

**Applicable Standards:** Meets ASTM D4601, Type II and D6163, Grade S, Type I. Flintlastic Base 20 T is approved by Underwriters Laboratories for use in various Class A, B and C roof assemblies, Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL 2533 and FL 16709) and Texas Department of Insurance (RC-47).

#### Technical Data

**Modified Bitumen Coating:** Non-oxidized (flux) asphalt, blended with a compatible elastomeric styrene-butadiene-styrene polymer and selected inert fillers.

**Support Mat:** Heavy duty fiberglass reinforced mat.

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
<b>Softening Point:</b>	ASTM D36	260°F
<b>Tensile Strength:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	70/70 lbs./in.
	@ 0 +/- 3.6°F MD/XD	130/135 lbs./in.
<b>Elongation:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	6%/6%
	@ 0 +/- 3.6°F MD/XD	5%/5%
<b>Dimensional Stability:</b>	ASTM D5147 MD/XD	0.1/0.1 Max
<b>Low Temperature Flex:</b>	ASTM D5147	Pass @ -20°F
<b>Compound Stability:</b>	ASTM D5147	250°F
<b>Thickness:</b>	ASTM D5147	3.0 mm (120 mils)
<b>Tear Strength:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	105/100 lbs.

\*NOTE: Published results are nominal production values confirmed by independent laboratory testing.

#### Product Application

Flintlastic Base 20 T 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.



## **Product Application (continued)**

**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 such as FlintPrime® and be allowed to completely dry. Substrates must provide positive drainage. Roof insulation must be tapered to drains.

**Installations:** Flintlastic Base 20 T must be installed with 3" side laps and 4" end laps, with end laps diagonally staggered not less than 3' apart. Flintlastic Base 20 T must be torched to non-nailable substrates or base sheets as specified in the CertainTeed Commercial Roof Systems Specifications. Sides and end laps must 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.

**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. Refer to the CertainTeed Commercial Roof Systems Specifications for additional safety information.

**Maintenance:** CertainTeed Commercial 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 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.

## **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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Code No. COMM-177