



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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Flex CTR 150 Black **(Coal Tar with Elvaloy, Reinforced Membrane)**

Product Description

The Flex CTR 150 Black is an elastomeric sheet membrane manufactured to blend coal tar pitch with DuPont's Elvaloy® KEE, and is reinforced with dispersed polyester fibers. The Flex CTR 150 Black provides excellent roof life and durability with Coal Tar Pitch and Elvaloy as well as protection from ultraviolet rays and environmental, chemical and biological attack. The Flex CTR 150 membrane has proven resistant to over 200 chemicals. The Flex CTR 150 Black is an extremely tough membrane which can be installed with a smooth uncoated, coated or aggregate surface finish. With the smooth surface finish, the Flex CTR 150 Black provides a surface which will withstand all abrasions encountered in a normal roof top environment. The Flex CTR 150 Black is specifically designed to be installed with various hot applied adhesives, such as Type III and Type IV asphalt. The side laps are to be hot air welded or can be sealed with an approved adhesive in top pour or aggregate applications.

The Flex CTR 150 Black membrane rolls are three feet (3') wide and fifty feet (50') long and are a nominal 60 mils in thickness. There are lap lines marked three inches (3") in from both edges and are parallel to the length of the membrane. The membrane is black in color and the rolls weigh approximately 58 pounds each.

Physical Properties

<u>Property</u>	<u>Test Method</u>	<u>Results</u>
Elongation	ASTM D412	170 %
Tensile Strength	ASTM D412	1500 lbs/in ²
Tear Strength	ASTM D624	330 ppi
Density @ 70°F		80 lbs/ft ²
Low Temp. Flexibility	37-GP-56M	Pass
Water Absorption	37-GP-56M	Less than 0.1 %

Approvals

The Flex CTR 150 Black has Underwriters Laboratories Class A Fire Rating over combustible and non-combustible decks. The Flex CTR 150 Black has a Factory Mutual 1-90 Class 1 rating over concrete, steel, wood and other types of decks when installed as approved. Also, the Flex CTR 150 Membrane has been evaluated and approved by the Southern Building Code Compliance Office.

Limitations

The Flex CTR 150 Black, when installed over an existing coal tar pitch or bitumen roof, an approved insulation or recover board must be installed as a separation layer between the existing and new roof. Due to flow characteristics, coal tar pitch must not be used as an interply adhesive in any assembly. Coal tar pitch may be used for top pour bonding of the aggregate to the surface of the Flex CTR 150 on roof slopes of 1/8" or less. Coal tar mastics must not be used with the Flex CTR 150 Black.

Phased construction is not approved. All required welding must be completed the same day the membrane is installed.

Installation

The substrate should be smooth, level, clean and dry. Dead load capabilities of the deck, its supporting structure, and assembly components must be determined by the specifier and/or contractor to be sufficient to support the load of the new system. Dead level applications are acceptable when standing water, snow and ice loads do not exceed the design limits of the structure or roof assembly components.

Install vapor barrier (optional) in accordance with vapor barrier manufacturer's instructions. Install treated wooden nailers and/or cant strips at perimeters and projections so as to be equal to the height of the insulation. Fastening of the wood nailers or cants must be in accordance with FM 1-49 or the specification writer, whichever is more stringent.

The insulation must be approved by Flex for use with the assembly being installed. The fastening or adhesion must be completed in accordance with the insulation manufacturer's specifications or the specification writer, whichever is more stringent. When Factory Mutual, Underwriters Laboratories, SBCCI or other code bodies apply, please refer to the latest published information for specific compliance requirements.

A base sheet (optional) may be specified to be mechanically attached, fully adhered, in an approved adhesive, or as a self-adhered membrane (please consult Flex's Technical Services Department for the approved base sheets for Flex Systems). If mechanical attachment of the base sheet is specified, at least one ply of Type IV or Type VI glass felt or an approved self-adhered membrane must be installed over it prior to installation of the Flex CTR 150 Black membrane. Glass ply felts Type IV or VI may then be installed in the approved interply adhesive. Note: The number and/or type of interply felts affect available warranties. When the underlying assembly is constructed in accordance with the specifications, the Flex CTR 150 Black membrane can be installed in the selected adhesive. All perimeter areas and projections must be pictured framed. Surfacing of the Flex CTR 150 membrane may be smooth, coated or top poured with the aggregate embedded in the top pour. If the surface of the Flex CTR 150 Black is left smooth or coated, all the seams and laps in the field and at perimeters and projections must be hot-air welded. For an aggregate surface, pour over the entire surface of the roofing membrane, a continuous coating of Type III or Type IV steep asphalt 60 lbs per 100 sq ft, and while hot, apply not less than five hundred (500) pounds of aggregate for each 100 square feet.

Warranty

Flex makes several high performance product warranties available to its customers. Contact Flex's Corporate Office directly for details.

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