



## Thermoplastic Single Ply and Multi-Ply Roofing Systems

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### **Flex CTR WS Black** **(Coal Tar with Elvaloy, Reinforced Self Adhered Membrane)**

#### **Product Description**

Flex CTR WS Black is a self adhering elastomeric sheet membrane, manufactured in a process that blends coal tar pitch with DuPont's Elvaloy® KEE and is reinforced with dispersed polyester fibers. The membrane is compounded, calendared to thickness and in a separate manufacturing process, the adhesive, release paper and lay lines are added, completing the finished product. The standard membrane thickness is 60 mils and the adhesive thickness is 15 mils for a total membrane thickness of 75 mils.

Flex CTR WS Black combines the strength and integrity of traditional Flex CTR membranes with the convenience and flexibility of self adhered and welded seam concepts to provide added environmental and application advantages. Placement of the lay line at 3" provides both an adhered and a welded portion within the 3" overlap of the membranes when they are installed. The Flex CTR WS Black has a single 1 ½" selvage running along the entire 50' length of the membrane for hot air welding.

Flex CTR WS Black is designed to be the surface weathering membrane in a self adhered built up assembly installed over insulation or other approved substrates, and is normally left in a smooth surface configuration. Coatings and other surface finishes are permitted for reflective and energy saving reasons.

Flex CTR WS Black self adhered membrane eliminates the need for roofing kettles producing offensive odors, dangerous open flame, and continuously noisy equipment. The Flex CTR membrane has been proven resistant to over 200 various types of chemicals used in manufacturing environments.

#### **Approvals**

The Flex CTR WS Black has Underwriters Laboratories Class A Fire Rating over combustible and non-combustible decks. The Flex CTR WS 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 WS Black Membrane has been evaluated and approved by the Southern Building Code Compliance Office.

## **Physical Properties**

Property	Test Method	Value
Color		Black
Elongation	ASTM D412	170%
Tensile Strength	ASTM D412	1600 lbs/in <sup>2</sup>
Tear Strength	ASTM D624	300 ppi
Density @ 70%		80 lbs/ft <sup>2</sup>
Low Temperature Flexibility	37-GP-57M	Pass
Water Absorption	37-GP-57M	Less than 0.1%
Roll Size		38" x 50'
Weight		85 lbs. per roll

## **Installation**

Substrates must be smooth, level, clean and dry. The surface on which the Flex CTR WS Black Membrane is to be adhered must be primed with an approved quick drying primer. The exception being, when applying the self adhered membrane to the surface of Flex self adhered base sheet. The base sheet must be clean and dry. Wood blocking and cants for both reroofing and new construction are required. The wood blocking must be installed to the same height as the installed insulation.

Cold assemblies require the installation of Flex Black 50 or Flex Black 60 self adhered base sheets. Hot assemblies require the installation of a minimum of 1 ply of Type IV glass ply mopped to the approved substrate with hot steep asphalt.

The membrane is installed by overlapping and aligning the membrane along the painted lay line. The selvedge edge is placed on the lay line of the underlying adjacent membrane. The 3" lap includes a 1 1/2" adhere portion and a 1 1/2" wide outer part for hot air welding. After installing the membrane roll the membrane with a minimum 100 lb. roller to insure proper adhesion contact.

All seams are completed by the hot air welding method. The system is normally finished with a smooth surface with or without a coating.

## **Limitations**

Flex CTR WS Black Membrane cannot be used with coal tar mastic due to the solvent base used to cut the bitumen, but can be applied over coal tar roof with an appropriate separation layer. Phased construction is not recommended. The self adhered membrane should only be applied when temperatures are 50° F and rising.

## **Warranty**

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

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