

# HYLOAD™ CTEM WATERPROOFING WS

## TECH DATA SHEET **WELDED SEAM**

### DESCRIPTION:

Hyload Coal Tar Elastomeric Membrane (CTEM) Waterproofing WS (WELDED SEAM) is a cold applied 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 backing and lay lines are added, completing the finished product. Two thicknesses are available: 75 mil (60/15) and 90 mil (75/15) (membrane thickness/adhesive thickness).

Hyload CTEM Waterproofing WS combines the time proven characteristics of coal tar pitch with the advanced technology of DuPont resulting in a high performance durable membrane. CTEM Waterproofing WS products are manufactured with trained personnel in a quality controlled environment. Both adhesive quality (SBS modified) and thickness are controlled and checked before material is shipped, ensuring correct application rates and thickness when installed.

### FEATURES:

- Water resistant
- Chemical resistant
- Self-adhering/cold applied
- Environmentally friendly
- VOC compliant
- Easy to install
- Heat welded seams
- Eliminates hot kettles

### USES:

CTEM Waterproofing WS can be used for Plaza waterproofing, PMR roofing, tunnels, sidewalk vaults, foundation wall applications, for both on horizontal or vertical surfaces.

### LIMITATIONS:

- Do not apply primer or membrane to damp, frozen or dirty surfaces
- Apply only when temperatures are 45° degrees and rising
- Chemical welding is not approved
- Do not use coal tar based mastic with CTEM Waterproofing WS

### PACKAGING:

- **Color:** Black
- **Size:** 38" x 50' rolls (158.3sq. ft.)
- **Coverage:** 145.1 sq. ft approximately
- **Weight:** 75 mil 85 lbs. per roll  
90 mil 104 lbs. per roll
- **Pallet Size:** 75 mil 24 rolls  
90 mil 24 rolls

### PREPARATION:

Surfaces to receive CTEM Waterproofing WS must be smooth, dry and solid with no moisture present. All debris must be removed and all cracks must be repaired prior to the installation of the CTEM Waterproofing WS.

### APPLICATION:

Surface to receive CTEM Waterproofing WS must be primed with HyPrime primer. The CTEM Waterproofing WS 75 or 90 mil may be applied with a CTEM HyBase SAM self-adhered underlayment base sheet or in a single layer application of either the 75 or 90 mil membranes. Project conditions and warranty requirements will determine the actual specification.

CTEM Waterproofing WS requires picture frame sheets for the main and any underlayment self-adhered membranes. CTEM Waterproofing WS is installed from the low to the high point on horizontal deck surfaces. The membrane is over lapped at the sides to the 3" lay line and 9 inches at the end lap. Vertical surfaces require the CTEM Waterproofing WS and any self-adhered underlayment be installed from top to bottom lapping side and end laps the same as on horizontal surfaces. A termination bar must be installed and caulked, with Hyload Structural Sealant, across the top edge where the CTEM Waterproofing WS and any self-adhered underlayment end. All inside corners are to receive a 1" minimum bead of sealant. All corners are to be reinforced with 9" widths of CTEM HyBase SAM self-adhered underlayment base sheet membrane prior to the application of Hyload CTEM Waterproofing WS.

Install end lap splice strips over the end of each roll end lap and hot air weld all 4 dry sides to the membrane beneath it. All side and end lap splice strip must be hot air welded before the end of each day.

Flashing incorporates CTEM Waterproofing WS and/or CTEM HyBase SAM underlayment self-adhered membranes. Flashing membrane(s) should be installed in pieces no longer than the width of the roll. Horizontal applications require the membrane to turn up the vertical surface a minimum of 8" or 4" above the termination of the vertical concrete pouring. A 9" reinforcement width of CTEM HyBase SAM self-adhered underlayment must be installed at all 90° angles. The membrane runs up the vertical and out onto the horizontal surfaces equal distances. A separate layer of CTEM HyBase SAM flashing membrane is then installed atop the CTEM Waterproofing WS extending up the wall a minimum of 4" above the termination of the waterproofing membrane and out onto the horizontal surface 4".

The CTEM Waterproofing WS flashing membrane is then installed atop the CTEM HyBase SAM flashing membrane extending up the wall to the same height as the CTEM HyBase SAM flashing membrane and out on to the roof surface 4" beyond the CTEM HyBase SAM flashing membrane. A termination bar is then installed, fastened and caulked with sealant at the top edge of the flashing and end lap splice strips are installed over the ends of the CTEM Waterproofing WS flashing sheet and hot air welded. Hot air weld all flashing side

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laps before the end of each work day. If concrete is to be poured atop CTEM Waterproofing WS a protection board should be installed to protect the membrane from any damage.

CTEM Waterproofing WS when used in horizontal Plaza deck and PMR roofing applications incorporates a separation sheet atop the CTEM Waterproofing WS system followed by extruded insulation, filter fabric/drainage board and pavers /gravel ballast.

## AVAILABILITY:

CTEM Waterproofing WS is available nationally and is manufactured at Hyloads Wadsworth, Ohio plant. Contact the Hyload Corporate office for the name of the Hyload Sales Specialist in your area.

## WARRANTY:

Hyload offers several types of product warranties to their customers. Contact Hyload Corporate office for the name of the Sales Specialists servicing your area.

## TECHNICAL DATA:

This Tech Data sheet provides general technical data and guidelines regarding the nature and use of the CTEM Waterproofing WS membrane. This information is not intended as a design or installation specification for any project. This Tech Data sheet is provided for general information only. No statement contained herein is intended or shall be construed as an expressed warranty.

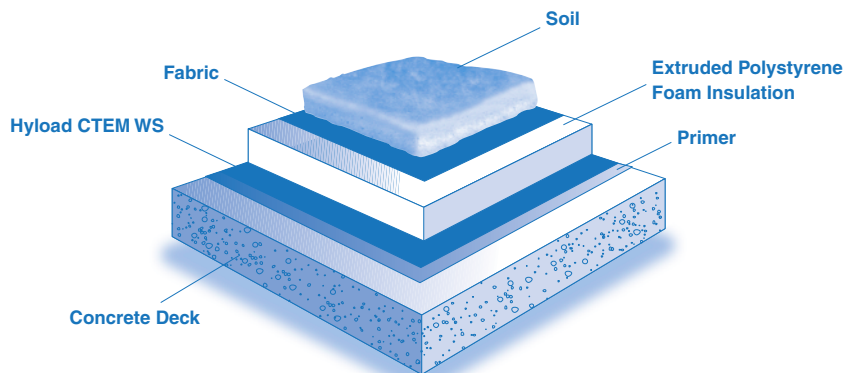
## PHYSICAL PROPERTIES:

Property	Test Method	Results
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
Perm Rating	37-GP-56M	<0.1%
Water Absorption	ASTMD 1970	<1%

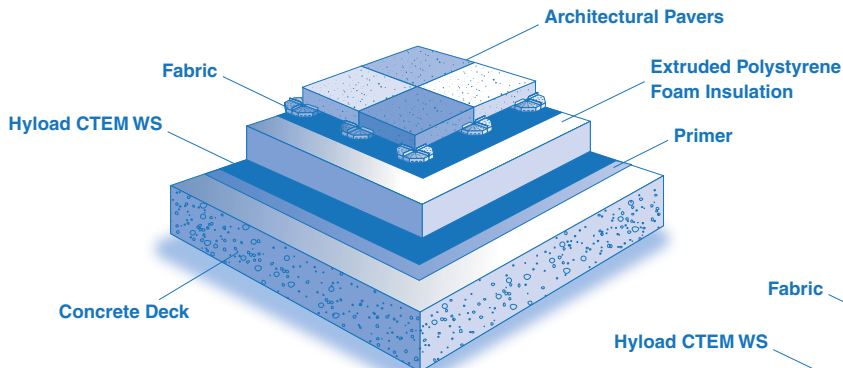
*Elvaloy® is a registered trademark of DuPont.*

## Protected Membrane Roof Assemblies (PMR) Hyload CTEM Waterproofing WS

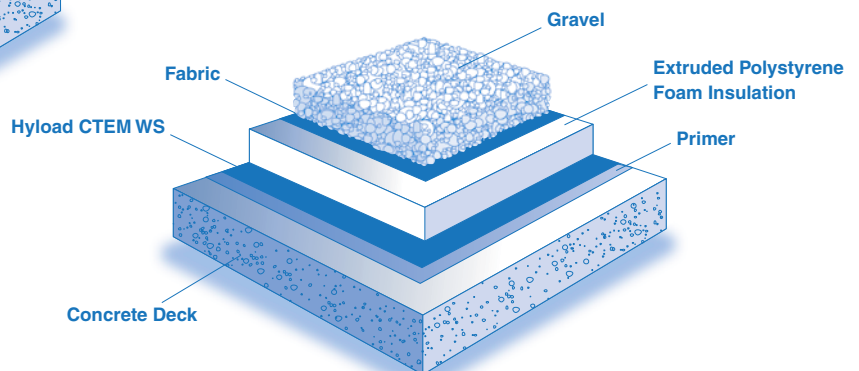
### Vegetative / Planted Roof PMR Assembly



### Roof Terrace PMR Assembly



### Gravel Ballast PMR Assembly



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