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HYDRO-SHIELD PREMIUM HT
TECHNICAL DATA
 Revision - 05-10

HYDRO-SHIELD PREMIUM HT

DESCRIPTION

HYDRO-SHIELD PREMIUM HT is a self-adhered non-reinforced underlayment composed of special elastomeric modified bitumen blends of SBS and other polymers. HYDRO-SHIELD PREMIUM HT is designed to be used under metal and tile roof systems and is available in split-back release material. HYDRO-SHIELD PREMIUM HT can be exposed for periods up to ninety (90) days before the roof assembly is installed. Foot and equipment traffic, especially on steeper sloped roof areas can affect the finished surfacing and water tightness of the sheets. Traffic should be limited until specified roof assembly is installed.

SURFACE PREPERATION

The use of a primer enhances the adhesion strength of self-adhesive membranes. Pimer is not required for proper installation of HYDRO-SHIELD PREMIUM HT. Contact your local Cleburne Sheet Metal technical representative for a list of approved surfaces, their preparation and the use of primer.

COMPOSITION, PACKAGING & TECHNICAL DATA

Product/ Property	HYDRO-SHIELD PREMIUM HT
Elastomeric Bitumen	blend of bitumen & SBS polymers
Topside	tri-laminate polyethylene
Underside	self-adhered with release material
Approx. Nominal Thickness	40 mils (1.0 mm)
Approx. Gross Roll Coverage	200 ft ² (18.6 m ²)
Side Lap (if applicable)	3" (76 mm)
End Lap (if applicable)	6" (152 mm)
Roll Length	67 feet (20.5 m)
Roll Width	36" (914 mm)
Approx. Roll Weight	43 lbs (20 kg)
Rolls Per Pallet*	25 boxed rolls
*Rolls stacked upright on pallet	

TECHNICAL INFORMATION		
Test Results	HYDRO-SHIELD PREMIUM HT	
Load strain properties @ 77° F (25° C)	MD	XD
Maximum load (lbs/inch)	64	88
Elongation @ maximum load (%)	52	24
Low Temperature Flexibility ASTM 1970	-22° F (-30° C)	
Peel Resistance on plywood ASTM D 903	11.4 lbs/ft	
Maximum Service Temperature	240° F (116° C)	
Water Vapor Permeance perm (ng/Pa· s· m ²) per ASTM E 96	0.017 (0.92)	
Air Permeability, (L/sec· m ²) per ASTM E 283 (75 Pa)	<0.007	

LIMITATIONS

- Minimum application temperature is 50° F (10° C).
- The roofing cover should be installed as soon as possible following the installation of HYDRO-SHIELD.



Note: Cleburne Sheet Metal may modify the composition and/or utilization of its products without prior notice. Consequently, orders will be filled to the latest specifications.



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APPLICATION INSTRUCTIONS

The HYDRO-SHIELD PREMIUM HT membrane is bonded to a properly prepared, dry (not damp), clean substrate which is defined as, but is not limited to: free of dirt; dust; debris; oils; unadhered coatings; any other contaminants that may result in a surface that is not sound or is un-even and affects the adhesion of the membrane to the substrate. Acceptable substrates for HYDRO-SHIELD PREMIUM HT are plywood, OSB, wood plank or composition, concrete, or masonry. Other surfaces may be acceptable, but the installer is responsible to determine substrate surface quality and whether priming is required so that HYDRO-SHIELD will stay adhered to that substrate.

Installation of HYDRO-SHIELD PREMIUM HT membranes occur when the release material is removed and the self-adhesive underside is matted onto the approved substrate using applied pressure. Starting at the low point, position a full roll or cut the membrane into ten to fifteen (10' to 15') feet (3 to 5 m) lengths and re-roll loosely. Peel back one to two (1' to 2') feet (300-600 mm) of release material, align the membrane, and continue to peel the release film from the membrane. Press the membrane in place with heavy hand pressure. Apply pressure to the membrane roll side and end laps to insure water tightness and bonding to the substrate. Membrane installation must not prevent ventilation of existing structure.

Always work from the low to the high point of the roof. Follow good roofing practice by orientating HYDRO-SHIELD PREMIUM HT so side laps shed water. Apply the membrane in valleys before the membrane is applied to the eaves. For valley and ridge application, peel the release material, center the sheet over the valley or ridge, drape, and press it in place. Work the center of the valley or ridge outward in each direction. Following placement along the eaves, continue application of the membrane up the roof. If nailing of the membrane is necessary on steep slopes during hot weather, back nail and cover the nails by overlapping with the next sheet. Extend HYDRO-SHIELD PREMIUM HT to the height as recommended by the local building code or to the highest locally expected level in order to maintain water tightness from wind driven rain, headwater back-up, ice dams and snow load.

Install discontinuous and water shedding finished roof materials in accordance with roof supply manufacturers installation guidelines, requirements and local building codes with the most stringent requirements prevailing.

SPECIFIER NOTES

Specifiers use HYDRO-SHIELD PREMIUM HT as a vapor retarder, air barrier and as shingle/tile underlayment. The Specifier and/or end-user are responsible for other type installations. Specifiers and underlayment installers must check with the individual metal roof system manufacturers to determine what limitations their metal or metal roof systems might have when an asphalt based material, which can be classified as a vapor retarder, is placed in close proximity to various finished insulated and non-insulated metal colors.



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