



USA PRO

POLYESTER BASE SHEET

DESCRIPTION

Though modified bitumen membrane with APP (Polypropylene Atactic) and reinforced with non-woven polyester mat which provides its high functionality characteristics. The top surface has sand or smooth (polyethylene) finish and the bottom surface has a polyethylene finish.

KEY TECHNOLOGY FEATURE

MODIFIED BITUMEN APP (ATACTIC POLYPROPYLENE) MEMBRANES, POLYESTER REINFORSEMENT.

PROPERTIES:

Physical Property	Test Method (ASTM)	Value
ASPHALT MODIFIER	N/S	APP ATACTIC POLYPROPYLENE
POLYESTER REINFORCEMENT	N/S	0.0368 lb/sqft (180 gr/m2)
Appearance	INTERNAL	ROLL
Type	INTERNAL	MODIFIED BITUMEN APP MEMBRANE
Color	INTERNAL	SMOOTH AND SANDED
Elongation longitudinal, %	ASTM D-5147	45
Elongation transversal, %	ASTM D-5148	45
Tensile longitudinal Strength, N (lb/in2)	ASTM D-5147	400 (90)
Tensile transversal Strength, N (lb/in2)	ASTM D-5148	294 (66)
Low Temperature Flexibility (14.8 F, 9.6 C)	ASTM D-5147	APPROVED
POLYESTER REINFORCEMENT lb/sqft (gr/m2)	N/S	0.0368 (180)
Softening point min °F	ASTM D-36	284-293
Penetration 1/10 mm	ASTM D-5	22-24
Dimensional stability	ASTM D-5147	Does not flow

ADVANTAGES

- Prevents / stopleaks
- Provides permanent waterproofing protection
- Extends the life or your roof
- Due to its physical – chemical characteristics it provides excellent resistance, durability and elasticity
- To be used with high temperatures and/or low temperatures climates
- Waterproofing surfaces with resistance to thermal – structural medium movements

- Excellent adhesion to any porous substrate
- High resistance to heat, cold chemicals, solvents, rain, snow and pollutants in the air
- Ponding water resistance

SUBSTRATES

- WOOD
- ASPHALT BUILT-UP SURFACES
- CONCRETE
- POLYSOCYANURATE

APPLICATION TOOLS

Metallic trowel with rounded tip, regulated blowtorch, house and propane tank.

INSTALLATION PROCESS

PREPARATION

Roof need to be completely finish to start working on the coating, slabs, parapets and other elements must be free of any masonry work, electrical & plumbing.

The surface must have a sizeable slope sufficiently to allow the evacuation of rainwater, at least 2%.

If any area that by their design tend to create hidden corners, diamonds should be made to draw water from these corners and redirect them to the general slope, these diamonds should have a minimum of 5%, starting at the top of the chamfer and ending at the level of the surface.

SURFACE PREPARATION

Surface must be clean, dry free of any grease or dirt. Pressure washing is recommended. Any existing coating must be removed by mechanical means such as wire brushing, sand blasting or scraping.

Scrape the surface to remove any adhered substance or mixture. The surface should be roughened to a depth of a minimum width of 2" in asphalt, or 4" in CONCRETE, less 8.0mm of the proposed waterproof roofing system.

Surface could have a rough finish if it allows the adherence of the roofing system and being careful by not leaving holes or bumps. A smooth surface it is not mandatory. The surface should be as smooth as possible to prevent ponding water





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PRIMING AND REVIEW CRITICAL POINTS

Apply ASPHALT BASE PRIMER (ASTM D-41 type primer) by brush or roller. The usage of this primer improves the adhesion of the modified membranes.

In every corner, contractor should place reinforcements, these reinforcements are made depending on the size of the corner excelling at least 2" each side.

For chimneys or pipes, a part of at least the diameter of the flue or chimney (more 4") is cut into strips, 50% of it to cover the flue or chimney, the remaining material is melted against the slab. In domes, treat a banding strip type throughout faces covering at least 4" and 4" slab between the walls of the dome.

In drains do the procedure as follows, cut a part excelling at least 4" of each side of the downspout, cut an area in a tongue form and merge it with the drain (which can be PVC pipe, metal or concrete) and the remaining material is melted against the slab and parapet.

All these reinforcements are made with the THERMOTEK™ USA PRO BASE SHEET.

COATING

Cut stickers and unroll on the roof. Wait until the rolls has flattened before proceeding. Align the rolls throughout the installation process. Proceed from the bottom of the roof and continue alignment fo the roll from the lowest part of the roof.

Mechanilly or Torch the BASE SHEET to the substrate ensuring proper alignment. If the base sheet is sanded, remove the excess of sand before your torch the cap sheet.

Base Sheet: Safely apply a torch to the poliethlyne surface. Warm the surface and continue to unroll while ensuring the torched area adheres to the substrate. Product performance can be impacted by inconsistent coverage with the torch. Be carefull not to torch to much o to little on the product because it will affect the performance.

Ensure a proper longitudinal overlapping on the rols, with a minimun of 4" on the sides and 6" on the end. To ensure proper adhesion on the seams, make a bleed through of 1/4" - 1" inch on every seam.

Its important that the installation has propoer distribution, ty to avoid seams that are at the same point, they need to be at least 24 inches on the end of each roll

YIELD

~COVERAGE 100 sqft (NOMINAL)

PACKAGING

Roll

COLORS

SANDED AND SMOOTH

STORAGE

The product must be stored on a vertical position, never horizontal. Maximum load is two beds with a plywood between them. The roll must be handled with caution in order to not damage it and to avoid cutting or perforating the membrane. It must be stored on a closed place, to avoid their exposition to sunlight during long time periods.

SHELF LIFE

These products can be stores for a period of 2 years from its manufacture.

COMPLIANCES

- UL Classified 790 Fire Resistance Class A
- UL Classified 1890 Up Lift Resistance
- NRCA National Roofing Contractor asociation Member
- TDI Texas Departament of Insurance Evaluation ID RC-464

APPLICATION (WHERE THESE PRODUCTS ARE USED - PHYSICAL PLACE)

THERMOTEK™ USA PRO BASE SHEET POLYESTER is an ideal product for use over porus surfaces. It can be used over many different types of roofing systems.

THERMOTEK™ USA PRO BASE SHEET POLYESTER is ideal product for fixing with mechanical fastening.





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MAINTENANCE / CLEAN UP

This Modified asphalt system requires cleaning every three months using detergent (such as TSP or TSP substitute) and water only. Clean application tools and equipment with 100% Pure Mineral Spirit.

FOR BEST PERFORMANCE

Should not be applied at temperatures below 40°F (4.5°C) or if rain is expected within 1 to 4 hours after the application.

Do not apply on wet surfaces
Do not use in swimming pools or other submerged conditions where the sealant will be exposed to strong oxidizers.

It is not for continuous traffic.
Do not use in areas of storage of solvents or gases.

APPROVALS AND CERTIFICATIONS



Product Specifications						
Roll Thickness	Roll Size	Roll Length	Roll Width	Approx. Roll Weight	Mils	Yield
2.0 mm	1.5 SQ (162.39 sqft)	49.212 ft	3.281 ft	83.75 lbs	80	140.46 sqft.
3.8 mm	1 SQ (107,61 sqft)	32,80 ft	3,281 ft	93.03 lbs	152	93,646 sqft

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