

POWERply® Heavy Duty Base Sheet

A Smooth Surfaced, Fiberglass Bilaminate Reinforced Modified Bitumen Membrane

FEATURES

Bilaminate Fiberglass Reinforced
UL Classified

BENEFITS

- Strong, non-rotting ply with superior strength
- Fire Protection

DESCRIPTION

POWERply® Heavy Duty Base Sheet is a smooth surfaced high strength modified bitumen membrane. POWERply Heavy Duty Base Sheet is constructed with a non woven fiberglass mat/fiberglass scrim bilaminate reinforcement. The asphalt coating is modified with an SBS elastomer. POWERply Heavy Duty Base Sheet is asbestos free and exceeds the requirements of ASTM D6163, Type III, Grade S.

BASIC USES

POWERply Heavy Duty Base Sheet is designed for application in hot or cold applied asphalt adhesives in modified bitumen systems where a high tensile modified base sheet or flashing ply is desired.

POWERply Heavy Duty Base Sheet can also be used as a base ply or flashing ply in a cold process modified bitumen roof system.

Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

DIMENSIONS

POWERply Heavy Duty Base Sheet roll size is 94.68 sq ft/roll (8.79 m²) applied, with roll dimensions of 3' X 36' (915 mm X 10.95 m). Roll thickness is 3.0 mm. Roll weight is 103 lbs. (46.8kg).

PACKAGING

POWERply Heavy Duty Base Sheet is available in pallets, with 20 rolls per pallet.

APPLICATION

Roof replacement usually involves more complexities than new construction roofing. Contingencies such as rusted or deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions are often encountered.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based on the condition of your roof.

Structural Deck: Deck must be properly designed and structurally sound.

Drainage: Ponding conditions are unacceptable and will adversely affect performance of any roofing system. Where positive drainage does not exist, water removal from roof surface must be facilitated by lowering drains, tapered insulation, or an approved lightweight insulating concrete slope system.

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed than can be covered in that day.

Installation Procedures: According to job specifications, prepare the surface to be covered:

- Replace areas of wet insulation, deteriorated deck and wood components.
- Install roof insulation or nailed base sheet and multi-ply base ply system.

Plan the placement of POWERply Heavy Duty Base Sheet to ensure that water flows over or along, but not against, the exposed edges.

Phased construction is not permitted. All roof membrane layers specified must be installed the same day.

POWERply® Heavy Duty Base Sheet

APPLICATION CONTINUED

Cold Process Application:

Base Sheet Application: Cut POWERply Heavy Duty Base Sheet into 16'-18' (4.9-5.5 m) lengths maximum. Allow lengths to relax.

Above 55°F (13°C): 30 minutes minimum

Below 55°F (13°C): 60 minutes minimum

Hot Applications: The adhesive temperature must be at the EVT or 425°F (218°C) at the point of application-whichever is greater. THERMastic, THERMastic 80, and Premium IV Asphalt are recommended as hot applied adhesives for POWERply Heavy Duty Base Sheet. Hot applied modified bitumen membranes require special application techniques under cool ambient temperatures and/or moderate wind conditions.

Application: Starting at the low point of the roof, embed POWERply Heavy Duty Base Sheet in a uniform and continuous application of adhesive. For cold process application, press the membrane into the adhesive using a minimum 75 pound weighted roller to assure full contact of the back of the membrane into the adhesive. Ply shall never touch ply. Side laps 4" (102 mm) minimum; end laps 6"

(152 mm) minimum. Offset membrane laps from the ply sheet laps. Stagger end laps at least 36" (914mm). To assure complete and uniform adhesion at lap edges, adhesive should exude past lap edges. Install flashings as specified.

- The use of phased construction techniques is not permitted.
- Not intended to perform under ponding conditions. Positive drainage is required.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.
- Backnail on roofs with slopes 2:12 (2" per foot), or greater.

LIMITATIONS

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile strength @ 0°F (-18°C)	220 lbf/in MD, 190 lbf/in XMD	ASTM D 5147
Elongation @ 0°F (-18°C)	3% MD, 3.5% XMD	ASTM D 5147
Low temperature flexibility	0°F (-18°C)	ASTM D 5147
Thickness	3.0 mm (0.120 in)	ASTM D 5147
Tear strength @ 77°F (25°C)	220 lbf (977N) MD, 240 lbf (1065N) MD	ASTM D 5147

MAINTENANCE

Your local Tremco Roofing Sales Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT

Your local Tremco Roofing Sales Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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