

# POWERply SA Base Sheet

## A Self Adhesive, SBS Modified Bitumen Base Sheet/Underlayment

**Composition:** POWERply SA Base Sheet is a self adhesive SBS Modified Bitumen base sheet. It consists of specially blended SBS modified asphalt above the fiberglass mat, with an SIS modified self adhesive bitumen blend below the fiberglass reinforcement. POWERply SA Base Sheet is surfaced with a polyolephin film which provides an excellent substrate for self adhering SBS modified bitumen membrane over the top. The bottom of POWERply SA Base Sheet is provided with a perforated and split release film to allow for easier handling during installation. POWERply SA Base Sheet meets the requirements of ASTM D 6163, Type I, Grade S.

**Basic Uses:** POWERply SA Base Sheet is designed for use as a base ply in a self adhered modified bitumen membrane roof system. POWERply SA Base Sheet may also be used as a backing sheet to properly prepared surfaces in a flashing installation. In addition POWERply SA Base Sheet may be specified as a component in a variety of roofing and waterproofing applications, such as a base ply under metal roof systems, under lightweight insulating concrete, and as a foundation waterproofing membrane.

**Limitations:**

- Not intended for application directly under a hot applied bituminous roof membrane system.
- Not intended for application directly under cold process bituminous adhesives because of the polyolephin film on the top membrane surface.
- Tremprime WB (waterbased) asphaltic primer is not recommended for priming concrete (masonry) surfaces prior to application of POWERply SA membrane.
- The following surfaces are not acceptable for POWERply SA FR; Perlite, Dens-Deck Prime (factory primed), asphalt base sheets with sand surfacing, uncoated wood fiber insulation, organic ply sheets, foil faced insulation, lightweight insulating concrete, EPS.
- Not to be applied at temperatures below 40°F (5°C). Ambient and surface temperatures must be a minimum of 40°F and expected to rise during the day.

- All substrates must be clean and dry during application. Do not apply over pre-existing embrittled asphalt or bitumen encrustations. Substrate must be spud clean and smooth.
- Not intended to perform under ponding water conditions. Positive drainage required.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.
- Backnail on roofs with slopes greater than 2:12 (2" per foot) (16.6%) or greater.

**Dimensions:** Available in a 2.0 mm (80 mil) thick, 1m x 20m (39-3/8" x 65' 8") roll. Roll covers approximately 20 m<sup>2</sup> (200 sq ft) when applied. Each roll weighs approximately 98 lbs (44.5 kg). Selvage width is 3-3/8" (86 mm) and end lap is 6" (152 mm).

**Packaging:** POWERply SA Base Sheet is available in pallets only, with 20 rolls per pallet. Each roll is individually boxed. Do not remove roll from box until installation. Store box standing on end and protect from rain and excessive temperatures prior to application.

**General Application Data:**

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based upon your roof's conditions.

**Structural deck:** Must be properly designed and structurally sound.

**Drainage:** Ponding conditions are unacceptable and will adversely affect performance of any roofing system. If positive drainage does not exist, water removal must be facilitated by lowering drains, and/or installing additional drains, tapered insulation, or a Tremco approved lightweight insulating concrete slope system.

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed than can be covered 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 approved roof insulation or prepare the substrate as specified.

**Application:**

Install POWERply SA Base Sheet over approved substrates only. Wood, concrete, metal and Dens-Deck must be primed with Tremprime QD Low Odor prior to application of POWERply Self Adhesive membranes. Sand surfaced base sheets, such as BURmastic Composite Ply, are not acceptable substrates. Tremco/Temple Fiberbase HD (six side coated wood fiber insulation) is the only approved wood fiber insulation for use under POWERply Self Adhesive membranes.

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

Product Advantages	
Features	Benefits
SBS polymer modified asphalt	<ul style="list-style-type: none"> <li>• Resists thermal shock and splitting</li> </ul>
Self Adhesive modified bitumen backing	<ul style="list-style-type: none"> <li>• Economical application method</li> <li>• Reduced odors during installation</li> </ul>
Safer application	<ul style="list-style-type: none"> <li>• No hot adhesives or torches required:</li> <li>• Reduced risk of fire</li> </ul>
Glass fiber reinforced	<ul style="list-style-type: none"> <li>• Strong, non-rotting reinforcement</li> </ul>
Polyolephin surface	<ul style="list-style-type: none"> <li>• Ideal base sheet for self adhering surface membrane</li> </ul>
UL Classified	<ul style="list-style-type: none"> <li>• Fire protection</li> </ul>



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edges. Starting at the low point of the roof, lay out sheet to assure all seams are straight and properly aligned with the roof edge. Align the factory applied selvage release film on the roof field side of the sheet, not along the roof edge.

Fold back POWERply SA Base Sheet lengthwise, then remove the first half of the perforated release film. Carefully fold the sheet back onto the substrate and adhere the first half. Press the membrane into place with firm, even pressure to assure positive adhesion. Avoid voids, wrinkles, and buckling. After first half is adhered, fold back other half of sheet. Remove release film backing and adhere remaining portion of sheet to the substrate in the same manner.

Position and apply second roll of POWERply SA Base Sheet parallel to the first roll, fully overlapping the release film on the first roll a minimum 3.5" (89 mm). Press the selvage to fully adhere, using firm, even pressure to assure positive adhesion. Continue application of all subsequent rolls in the same manner.

Overlap POWERply SA Base Sheet end laps 6" minimum. Prior to completing end lap, do not remove 6" (minimum) of release film from the top sheet. Along end laps, cut the underlying sheet in the T-Lap area to a 45 degree angle prior to removing selvage and end lap release film. Caulk along 45 degree lap cut with 1/8" bead of Reglet Joint Sealant to ensure complete watertight protection of substrate.

Roll the finished POWERply SA Base Sheet surface to assure positive adhesion. Use an 80 lb linoleum roller, water filled lawn roller, or similar weighted roller to provide sufficient pressure to the base sheet surface.

Install POWERply SA membrane system directly to POWERply SA Base Sheet. Offset membrane laps from base ply laps. Stagger end laps at least 36" (914 mm).

**Cool Weather Conditions:** Rooftop temperatures of 140F (60C) must be attained to fully activate the self adhesive backing and laps. Ultimate system laminate strengths are not fully achieved until POWERply SA membrane equilibrates at or above this temperature.

Under weather conditions where POWERply SA membranes will not achieve the proper heat cycle temperature, alternate heat sources are recommended to obtain positive adhesion of end laps, side laps, and other critical areas.

Heat overlap areas of POWERply SA membrane with an electric powered hot air welding tool, such as one used to weld single ply laps. Apply heated air evenly to overlap areas until surface becomes warm and glossy in appearance. Do not overheat and cause bitumen to liquefy and flow. Join heated overlap areas immediately and apply pressure using a hand seam roller. Do not allow traffic on lap areas until cool.

**Precautions:** Users must read container labels and material safety data sheets for health and safety precautions prior to use.

**Availability and Cost:** Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

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

**Guarantee/Warranty:** Tremco Incorporated warrants POWERply SA Base Sheet to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any product that

## Physical Performance Characteristics

### POWERply SA Base Sheet

Property	Typical Value	Test Method
Thickness	0.080 in. (2.0 mm)	ASTM D 6163-00
Tensile Strength @ 0F (-18°C) Minimum	70 lbf (12.3 kN/m) MD 70 lbf (12.3 kN/m) XMD	ASTM D 6163-00
Elongation @ 0F (-18°C) Minimum	1% MD 1% XMD	ASTM D 6163-00
Tensile Strength @ 77°F (25°C) Minimum	30 lbf (5.3 kN/m) MD 30 lbf (5.3 kN/m) XMD	ASTM D 6163-00
Elongation @ 77°F (25°C) Minimum	2% MD 2% XMD	ASTM D 6163-00
Tear Strength at 77°F (25°C)	35 lbf (156 kN/m)	ASTM D 6163-00
Low Temperature Flexibility	0F (-18°C)	ASTM D 6163-00
Dimensional Stability, max	0.5%	ASTM D 6163-00
Compound Stability at 215°F (102°C)	no failure	ASTM D 6163-00

is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY. All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**Technical Services:** Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weather-proofing technology, complement and extend the services of the Tremco Technical Service staff.

**Statement of Policy and Responsibility:** Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

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