

# POWERply® SBS DELUXE HW

## *A High Performance, Granule Surfaced, Bilaminate Reinforced Heat Weldable Modified Bitumen Membrane*

### FEATURES

SBS modified asphalt

High-strength bilaminate reinforced

Factory applied surfacing

Polyolephin backing

UL Classified

### BENEFITS

- Resists thermal shock and splits
- Puncture resistant and high tensile
- Saves job-site labor, prevents application errors
- Allows for excellent adhesion
- Fire protection

### DESCRIPTION

POWERply SBS Deluxe HW (Heat Weld) is a granule surfaced modified bitumen membrane with fire resistant characteristics. It consists of specially selected bitumens, modified with compatible SBS elastomers and reinforced with a composite polyester/ fiberglass core. POWERply SBS Deluxe HW is furnished with a factory applied white granule surfacing and a burn-off polyethylene sheet on the underside of the membrane. POWERply SBS Deluxe HW is asbestos free. POWERply SBS Deluxe HW exceeds the requirements of ASTM D 6162, Type III, GRADE G.

### BASIC USES

POWERply SBS Deluxe HW is designed for applications in hot air heat welded (torch applied) multi-ply roof and flashing systems where a high strength bilaminate reinforced, granule surfaced membrane is desired. Refer to UL Roofing Materials and Systems Directory for applicable system configurations.

### DIMENSIONS

POWERply SBS Deluxe HW is a 3.5 mm (140 mil) thick membrane. Roll covers 100 sq. ft. (9.29 m<sup>2</sup>) when applied, with roll dimensions of 39-3/8" x 32' 10" ( 1.0 m x 10.0 m). Each roll weighs approximately 90 lbs (40.8 kg).

### PACKAGING

POWERply SBS Deluxe HW is available in pallets only, with 20 rolls per pallet.

### APPLICATION

**General Application Data:** Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions.

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 Decks:** Must be properly designed and structurally sound.

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

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed that 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 roof insulation or nailed base sheet and multi-ply base ply system.

**Application:** Plan the placement of POWERply SBS Deluxe HW to ensure that water flows over or along, but not against, the exposed edges. Starting at the low point of the roof, set the roll and unroll the roll up to half of the length where possible to assure proper alignment. Torch apply the flame to the surface of the coiled roll until the surface reaches the proper application temperature (330°F to 350°F [166°C to 176°C]). This fully burns off the polyethylene release backing and causes the bitumen on the back of the roll to flow and provide full coverage and adhesion of the membrane to the substrate.

Slowly unroll the torch heated roll while applying sufficient pressure to the roll to adhere the

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## APPLICATION CONTINUED

sheet to the under-lying surface. A 1/8" to 3/8" (3 mm to 10 mm) bleed out of SBS modified bitumen extending beyond the edge of each lap is required. Immediately apply matching granules into this bleed out along side laps and end laps. Roll side laps and end laps with a steel lap roller and check all laps for proper adhesion.

The torch flame must be moved from side to side to heat the back of the sheet enough to develop a glossy sheen. In addition, the selvage and end lap areas of the previously applied sheet must be torch heated to provide proper adhesion. Heavy smoke from the torched surface indicates the surface is being overheated.

Embed the granules on POWERply SBS Deluxe HW prior to adhering additional sheeting over it at end laps, base flashings, and for patchwork. Heat the granule section and press the granules into the compound using a steel trowel to provide a surface capable of proper adhesion.

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" (914 mm). To assure complete adhesion at lap edges, adhesive should be visible past lap edges. Install flashings as specified.

## LIMITATIONS

- Not intended to perform under ponding conditions. Positive drainage 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)(16.6%) or greater.
- Do not use cold adhesives in contact with the polyethylene backing on the membrane.

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness	3.5 mm (140 mils)	ASTM D5147
Tensile strength @ 0°F (-18°C)	275 lbf/in MD (48 kN/m), 275 lbf/in XMD (48 kN/m)	ASTM D5147
Elongation at 0°F (-18°C)	3.0% MD, 3.0% XMD	ASTM D5147
Tensile Strength @ 77°F (25°C)	275 lbf/in MD (48 kN/m), 275 lbf/in MD (48 kN/m)	ASTM D5147
Elongation at 77°F (25°C)	3.0% MD, 3.0% XMD	ASTM D5147
Tear strength at 77°F (25°C)	380 lbf MD (85 N), 380 lbf XMD (85 N)	ASTM D5147
Low Temp Flex	0°F (-18°C)	ASTM D5147
Dimensional Stability	0.5%	ASTM D5147
Compound Stability @ 212°F (100°C)	pass	ASTM D5147

## PRODUCT SPECIFIC PRECAUTIONS

Provide written notice to the local fire department in localities where required. Obtain permits for application of roofing by torch where required. A fully charged, 20 lb minimum ABC dry chemical fire extinguisher must be available for each man on the project.

Roofing workers should wear proper protective equipment for torch installations, including long sleeved nonsynthetic shirts, long pants with no cuffs, boots, heat resistant gloves, and a face shield.

Roofing workers must be properly trained in safe application techniques for torch applied roofing, such as provided by the CERTA (Certified Roofing Torch Applicator) Program.

Do not torch onto or near combustible materials or surfaces. Do not torch near or into vents, openings, cracks, or penetrations into the building. Shut off power fans in the torch area. Never leave lighted torches unattended.

A fire watch never shorter than 1 hour after the torch application is required for all torch applications. A longer fire watch may be necessary due to the size or configuration of the building. Use an infra-red heat imaging device to detect hot spots or smoldering materials. If a fire is detected, contact the fire department immediately.

Tremco does not supervise contractors or any other person in the application of heat welded torch applied modified bitumen and assumes no responsibility for fire damage or any other damages.

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## MAINTENANCE

Your local Tremco Roofing field 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.

## GENERAL PRECAUTIONS

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

## TECHNICAL SUPPORT

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



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