

POWERply® HE Smooth

A Smooth Surfaced, High Elongation Polyester Reinforced SBS/SEBS Modified Bitumen Membrane

COMPOSITION:

POWERply® HE Smooth is a smooth surfaced, high elongation modified bitumen membrane. It consists of specially selected bitumens, modified with compatible SBS/SEBS elastomers and reinforced with a non-woven polyester mat. POWERply HE Smooth is asbestos free. POWERply HE Smooth exceeds the requirements of ASTM D 6164, Type I, Grade S.

BASIC USES:

POWERply HE Smooth is designed for applications in modified bitumen roofing and flashing systems where a high-strength polyester reinforced membrane is desired.

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.
- Not intended for phased construction.

DIMENSIONS:

POWERply HE Smooth is a 2.4mm (0.094 in.) thick membrane. Roll covers 150 sq. ft. (13.9m²) when applied, with roll dimensions of 1m x 15.7m (39 3/8" x 51'6"). Each roll weighs approximately 95 lbs. (43.1kg).

PACKAGING:

POWERply HE Smooth is available in pallets only, with 20 rolls per pallet.

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 slope system.

INSULATION :

Insulation must be dry and kept dry. No more insulation shall be installed that can be covered that day. The use of FAS-n-FREE Adhesive for solvent free, fastener free insulation attachment is the preferred method of attachment unless otherwise specified.

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

Plan the placement of POWERply HE Smooth to ensure that water flows over or along, but not against, the exposed edges.

Starting at the low point of the roof, install the modified bitumen roof system according to specifications.

Place POWERply HE Smooth in a uniform and continuous application of adhesive. Side laps 4" (100mm) minimum; end laps 6" (150 mm) minimum. Offset base laps from membrane laps. Stagger ends 36" (approx. 1m) minimum. 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. To assure complete and uniform adhesion, adhesive should exude past lap edges.

| PRODUCT ADVANTAGES | |
|--------------------------------------|---|
| Features | Benefits |
| Polymer modified asphalt | <ul style="list-style-type: none"> • Resists thermal shock and splitting |
| High elongation polyester reinforced | <ul style="list-style-type: none"> • Strong yet very pliable to resist tears and splits • Works with the polymer-modified asphalt blend to enhance membrane performance |

THERMastic, POWERply Modified Hot Melt Adhesive and Premium IV Asphalt are recommended as adhesives for POWERply HE Smooth. Hot applied modified bitumen membranes require special application techniques under cool ambient temperatures and/or moderate wind conditions. Consult your local Tremco Representative for specific recommendations.

POWERply Rubberized Cold Adhesive and POWERply Standard Cold Adhesive are recommended cold process adhesives for POWERply HE Smooth. For cold process applications, relax POWERply HE Smooth in 10' to 16' sections for 60 minutes minimum just prior to application when ambient temperatures are below 55°F (13°C).

PRECAUTIONS:

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

AVAILABILITY AND COST:

Contact your local Tremco 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 HE Smooth to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco Standards. Under this warranty, any POWERply HE Base that is proved to be defective when applied in accordance with 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 is IN LIEU of any and all other warranties expressed 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.

| TYPICAL Physical Performance Characteristics | | |
|---|---|--------------------|
| POWERply® HE Smooth | | |
| Property | Typical Value | Test Method |
| Thickness | 0.094 in (2.4mm) | ASTM D5147 |
| Tensile strength @0°F (-18°C) | 165 lbf/in MD (28.8 kN/m) 140 lbf/in XMD (24.5 kN/m) | ASTM D5147 |
| Elongation @ 0°F (-18°C) | 50% MD 50% XMD | ASTM D5147 |
| Low temperature flexibility | -25°F (-32°C) | ASTM D5147 |
| Tear strength | 160 lbf (711 N) 130 lbf (578 N) | ASTM D5147 |

STATEMENT OF POLICY AND RESPONSIBILITY:

Tremco takes responsibility for the furnishing of quality roofing materials, and 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 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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