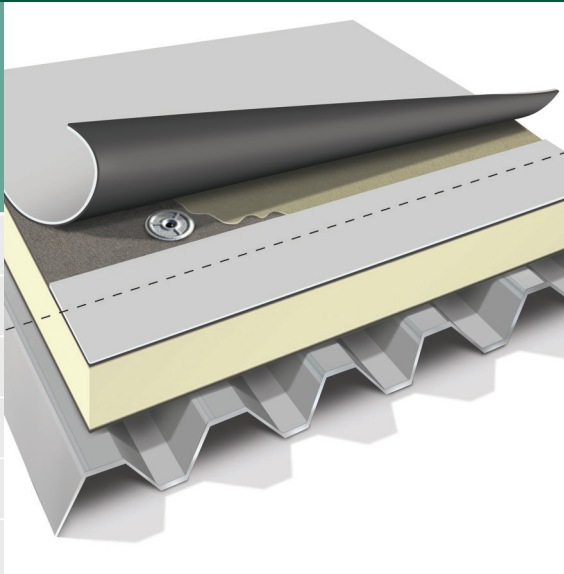


# TremPly® TPO Single Ply Roofing System



## Environmentally Friendly, Long-Lasting Single Ply Adhered Roofing System

### FEATURES

- Great Value
- Excellent Seam Strength
- Long-term Weathering
- Energy Saving
- Inherently Flexible
- Fungal Resistant

### BENEFITS

- Excellent performance at a cost-effective price.
- Heat-welded seams provide greater seam strength to taped and other seams.
- Excellent long-term heat and UV resistance.
- Highly reflective and emissive white surface can help reduce energy use and urban heat island effect.
- No need for plasticizers.
- Doesn't require biocides.

### DESCRIPTION:

TremPly® TPO Single Ply Roof System is a thermoplastic roofing membrane available in 45, 60, and 80 mil thicknesses. It is offered in 5-foot and 10-foot-wide sheets that feature heat welded seam integrity and overall exceptional value. Also available in fleeceback.

### BASIC USES:

TremPly TPO is available as a mechanically attached, fully adhered, ballasted, or a heat induction welding system. TremPly TPO's hybrid configuration includes multi-ply, hot applied, and low-rise foam applications. It comes with a full line of readily available, pre-fabricated accessories designed to save time and money.

### COLORS:

White, Tan, Gray

### GRADE:

TremPly TPO and TremPly TPO Fleeceback are offered in 45mil, 60mil, 80mil thicknesses.

### STORAGE LIFE:

Store rolls on their sides on pallets or shelving in a dry area. Jobsite specific be sure to cover or tarp when not in use.

### APPLICATIONS:

- TremPly TPO Reinforced Membrane
- Approved Insulation Fasteners and Plates
- TremPly Bonding Adhesives
- Approved Insulation and Coverboards
- Mechanically Attached/Fully Adhered/Ballasted/Heat Induction/Hybrid
- Configuration including Fleeceback

### COVERAGE RATE:

Available in 10'x100' (1,000 sq. ft.) and 5'x100' sheets (500 sq. ft.)

### ACCEPTABLE ROOF SURFACES/ SUBSTRATES:

DECK TYPE	NEW CONSTRUCTION					REROOFING				
	Steel	Plywood or OSB	Lt. Wt. Concrete	Structural Concrete	Wood Planks	Cementitious Wood Fiber	Smooth BUR	Gravel BUR	Existing SinglePly	
<b>INSULATION REQUIRED</b>	YES	NO	YES	NO	YES	YES	YES	YES	YES	
<b>RECOMMENDED INSULATIONS</b>	DensDeck® Prime, Securock®									
<b>INSULATIONS ATTACHED BY</b>	Adhesive, or approved Fasteners and Plates									
<b>MEMBRANE ATTACHED BY</b>	TremPly Low VOC TPO Bonding Adhesive, TremPly WB Bonding Adhesive									

### LIMITATIONS:

For fully adhered, fleeceback and low-rise foam applications, the substrate membrane and outside temperatures must be 40°F and rising. Application temperatures above 50°F are recommended to allow easier adhesive application.

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## PHYSICAL PROPERTIES:

Physical Property	Test Method	Typical Value
Membrane Thickness	ASTM D-751	TPO-45/ FB-450 Ultra: .045" TPO-60/ FB-600 Ultra: .060" TPO-80/ FB-800 Ultra: .080"
Breaking Strength	ASTM D-751 (Grab Method)	TPO-45: 290lbf x270 lbf FB-450: 430lbf x360 lbf
Seam Strength	ASTM D-751	Pass (membrane fails before seam)
Elongation at Break	ASTM D-751	30%
Heat Aging	ASTM D-573	100% retention
Tear Strength	ASTM D-751	TPO-45: 124 lbf x140 lbf FB-450: 90 lbf x120lbf
Cold Temp. Brittleness	ASTM D-2137 ASTM D-2137	TPO-45: -40°C FB-450: -45°C
Permeance	ASTM E-96	TPO-45: .07 Perms
Dimensional Change	ASTM D-1204 @158°F, 6hrs.	TPO-45: .4% FB-450: .4%
Water Absorption	ASTM D-471 @158°F, 1 week	0.7% TPO-45: 390 psi
Hydrostatic Resistance	ASTM D-751 (Method D)	FB-450: 550 psi
Ozone Resistance	ASTM D-1149	No visible deterioration @7 x magnification
Weather Resistance	ASTM G-155 @5040 KJ (m <sup>2</sup> -nm) @ 340 nm	No cracks @7x magnification

**Note:** This data based on typical product performance for 45-mil membrane, and are subject to normal manufacturing tolerances and variances. Certain data are provided in MD (machine direction) x CMD (cross machine direction) format. Visit [www.tremcoroofing.com](http://www.tremcoroofing.com) for latest data.  
**Important Note:** Tremco TPO membranes meet and/or exceed ASTM D-6870 standards for thermoplastic TPO membranes .

## 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 preventative maintenance are all part of a sound roof program.

## TECHNICAL SERVICES:

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



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