

# POWERply Cold 360

## A Cold Applied, Seamless, Modified Bitumen Roof System

### Description:

The POWERply Cold 360 Modified Bitumen Roof System consists of two smooth surfaced, polyester reinforced SBS modified bitumen plies adhered and floodcoated with POWERply Standard Cold Adhesive, a unique, cold process, modified asphalt based adhesive. The system is then finished with a gravel surfacing.

The system combines the flexibility of polymer modified membrane and a cold applied adhesive with the seamless and multi-ply assembly of a time tested built-up roof.

### Basic Use:

POWERply Cold 360 can be used as a new or replacement membrane wherever a premium modified bitumen or built-up roof system is appropriate, but where it is desired to have a low odour roof system or a roof system suitable for use in areas with difficult access.

### Limitations:

- Do not install directly over wet insulation or substrates
- Do not install directly over any foam insulation

### Packaging:

POWERply Standard Cold Adhesive is available in 18.9L (5 Gal) and 200 L (53 Gal) containers. Estimate coverage of smooth modified bitumen at approximately 147 sqft/roll/ply.

Product Advantages	
Features	Benefits
Cold applied	• No flames, hot kettles or smoke – reduced fire risk
Low odour	• Can be readily used in odour-sensitive areas such as schools and health care facilities
Polymer modified plies	• Membrane flexibility to resist thermal shock and splitting
Seamless	• Continuous waterproofing protection without exposed lap edges
Polyester reinforcement	• Strong and pliable to resist punctures, tears and splits

### 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 to support and secure the POWERply Cold 360 roof system.

### Vapour/Air Barrier:

Where specified, ensure proper design and installation.

### Drainage:

Excessive ponding conditions can adversely affect the performance of any roof system. Where positive drainage does not exist, water removal from the roof surface must be facilitated by lowering sumps, installing tapered insulation or additional drains.

### Insulation:

Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day. Insulation may be secured with mechanical fasteners or a Tremco approved hot or cold applied adhesive as specified. Asphalt coated fibreboard is the recommended overlay board.

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

### Installation Procedures:

According to particular job specifications, prepare surface to be covered:

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

1. Prior to placement, cut modified bitumen in 16' to 20' lengths. Allow lengths to relax at least 30 minutes at 13°C (55°F) or above. Allow approximately 60 minutes to relax at temperatures below 13°C (55°F).

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2. Starting at the low point of the roof, install 2 plies of smooth modified bitumen. Place to ensure that water will flow over or parallel to, but not against exposed edges. Lap ends 150 mm (6 in) and stagger all laps 300mm (12 in), minimum. Dry roll each ply to ensure proper alignment, prior to adhering with POWERply Standard Cold Adhesive.

3. Immediately embed each ply in uniform applications of POWERply Standard Cold Adhesive, spray or brush applied at approximately 0.8 litres/sqm (2 gal/sq) per ply.

4. Install flashings incorporating either Elastomeric Sheeting or 2 plies of Modified Bitumen as specified.

#### Surfacing:

Apply POWERply Standard Cold Adhesive at 2.4 litres/sqm (6 gal/sq) and immediately broadcast 20 kg/sqm (400 lb/sq) of new, clean pea gravel.

#### Availability/Cost:

Immediately available from Tremco at strategic locations throughout Canada.

Cost data is available from your local Tremco Representative. For name and number of your local Tremco Representative, call 416/421-1300 in Toronto, 514/521-9555 in Montreal or 800/263-6046. In the U.S. call 216/292-5000 or 800/852-6013.

#### Guarantee/Warranty:

We warrant our products to be free from defects and manufactured to meet published physical properties when cured and tested according to ASTM, CGSB and Tremco standards. Under this warranty, we will provide, at no charge, additional product to replace any product proved to be defective when applied in accordance with our written instructions and in applications recommended by us as suitable for this product.

All claims concerning product defect must be made within twelve (12) months of shipment. 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.

#### Maintenance During Warranty Period:

Written notice to Tremco within thirty (30) days is required after any alleged defect is noticed.

#### Technical Services:

Your local Tremco Representative, in conjunction with Tremco Engineering Service Department, provides problem analysis and assistance in developing recommendations for special applications. On-site instruction can generally be provided at a nominal charge. Their services are complemented and extended by the Tremco Research Centre, which has earned a unique reputation in weatherproofing technology.

### Typical Physical Performance Characteristics

#### POWERply Cold 360

Property	Typical Value	Test Method
<b>POWERply Standard Cold Adhesive</b>		
Viscosity	2500-7500 (25-75 Pa•S)	ASTM D 2196
Weatherability	Very Good	QUV Tester 60°C/ condens'n /-20°C cycling
Flash Point	>38°C (100°F)	ASTM D93-97
VOC	270g/L	ASTM D 6511
<b>Modified Bitumen Plies</b>		
Thickness	2.2mm	
Reinforcement	Polyester (180 gm/sqm)	
Tensile Strength (@25°C) MD	390N (87.8 lbf)	ASTM D 5147
XMD	244N (55 lbf)	ASTM D 5147
Elongation (@25°C)		
MD	63.3%	ASTM D 5147
XMD	92.3%	ASTM D 5147
Tear Strength (@25°C)		
MD	502N (113 lbf)	ASTM D 5147
XMD	280N (63 lbf)	ASTM D 5147
Low Temperature Flexibility	-25°C	ASTM D 5147

Statement of Policy and Responsibility: Tremco takes responsibility for the furnishing of quality roofing materials, and providing specifications and recommendations for their proper installation. Tremco does not, either itself or through its representatives, practice architectural or structural engineering. Tremco offers no opinion on, and expressly disclaims any responsibility for the structural soundness of any roof deck on which its products may be applied. Opinions of competent structural engineers should be obtained as to the structural soundness of the roof deck, or its ability to properly support the contemplated roof installation. Tremco accepts no liability for any failure of the roof deck or resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

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