

# POWERply® Standard Cold Adhesive

## Cold Applied Adhesive For Modified Bitumen Roof Systems

### FEATURES

- Cold-applied
- Low odor/asbestos free
- High performance adhesive

### BENEFITS

- No flames, hot kettles, smoke, or fire risks
- Reduces equipment needs and start-up time
- Adhesion not temperature dependent
- Can be readily used in restrictive areas, including schools and hospitals
- Welds modified bitumen sheets, forming monolithic membrane

### DESCRIPTION

POWERply® Standard Cold Adhesive is an asbestos-free, fibrated, cold-process asphalt adhesive for modified bitumen membrane systems, which exceeds the requirements of ATM D 3019, Type III.

### BASIC USES

POWERply Standard Cold Adhesive is designed for application as a cold process interply and aggregate-surfacing adhesive for POWERply roof systems over approved roof insulation and base sheets.

Refer to UL Roofing Materials & Systems Directory and/or FM Approvals RoofNav® for applicable roof system configurations.

### GRADE

Spray/brush/squeegee. Can be heated to facilitate application by using an oil-jacketed heat exchanger.

### EQUIPMENT

**Spray:** Pump: Pneumatic or hydraulic pump with a minimum 2200 psi material output pressure. Output flow rate must be 3 GPM (gallons per minute) or greater for efficient production rates.

**Spray tip/fluid hose:** Reversible spray tip with 0.052" to 0.072" orifice and a 40° to 60° spray fan. Material fluid hose must be properly rated for the maximum working pressure of the pump being used.

**Squeegee:** Triangular notched to provide 30-35mil thick uniform application.

### PACKAGING

Available in 5 (19L) or 52 (196.8L) gallon containers.

### CLEAN-UP

Mineral spirits.

### STORAGE LIFE

One year in unopened containers.

### 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 upon your roof's conditions.

**Structural Decks:** 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 light-weight concrete slope system.

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day.

# POWERply® Standard Cold Adhesive

## APPLICATION

CONTINUED

### Acceptable Insulations:

TYPE	MINIMUM THICKNESS*	FACER
Wood Fiber	1/2" (13mm)	Treated
Gypsum Board	1/4" (6mm)	Treated fiberglass or compressed surface

**Maximum size:** 4' x 8' (1219mm x 2438mm)

\* Minimum thickness for application of POWERply Standard Cold Adhesive. Follow insulation manufacturer's instructions to obtain minimum thickness for spanning metal deck ribs.

**Installation Procedures:** According to particular project specifications, prepare surface to be covered:

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

Plan placement of POWERply Roof System to ensure that water flows over or along, but not against exposed edges. Starting a low point of roof, embed asphalt coated base sheet in a uniform continuous application of POWERply Standard Cold Adhesive. Apply POWERply membranes in a fresh application of POWERply Standard Cold Adhesive. Lap 4" (100mm); minimum end laps 6" (150 mm) minimum. Offset laps of top membrane from base sheet laps. Stagger end laps 36" (approx 1 m). Apply pressure to end lap areas to assure positive adhesion.

Lap 4" (100mm) minimum; end laps 6" (150mm) minimum. Offset laps from base sheet laps. Stagger end laps 36" (approx. 1m) minimum. Apply pressure to end lap areas to assure positive adhesion.

To assure complete and uniform adhesion adhesive should exude past lap edges.

2 gals/SQ (0.8 L/m<sup>2</sup>) per ply.

**Gravel:** Apply POWERply Standard Cold Adhesive over roof surface at 5 gal/100 ft<sup>2</sup> (2.0 L/m<sup>2</sup>). Immediately broadcast 400-500 lb/100 ft<sup>2</sup> (19.4-24.4 kg/m<sup>2</sup>) of new, clean aggregate into adhesive. Aggregate shall conform to ASTM D 1863.

**Roof Coatings:** Allow for a 28 day minimum cure period for POWERply granule surfaced membranes that are adhered in POWERply Standard Cold Adhesive prior to the application of roof coatings, Alumanation 301, ICE Coating, Tremco T24 Coating or Solargard 6083 over the top of POWERply granule surfaced membranes.

- Not intended to perform under ponding conditions. Positive drainage required.
- Not to be used as an insulation adhesive.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.
- Not intended for use in adhering cold applied BUR and MB systems directly to isocyanurate insulation; the use of an approved cover board over isocyanurate insulation is recommended.
- Not intended for use as a smooth roof coating.
- Not for use over expanded polystyrene (EPS) or EPS composite insulations installed in any configuration unless EPS is encapsulated within lightweight insulating cellular concrete.
- Backnail membrane on roofs with slopes 2:12 (2" per foot) or greater. Do not install on roofs with slopes greater than 4:12 (4" per foot).

## COVERAGE RATE SURFACING OPTIONS

## LIMITATIONS

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Asbestos content	None	EPA 600/R-13/116
Viscosity @ 77°F	25,000-75,000 cP (25-75 Pa*s)	ASTM D 2196
Density @ 77°F	7.2-7.6 lb/gal	ASTM D 6511
Nonvolatile content	72%	ASTM D 6511
Asphalt content, min.	50%	ASTM D 6511
Flash point	>100°F	ASTM D 93
Uniformity & Consistency	Pass	ASTM D 6511
VOC	<250g/L	ASTM D 6511
Lap Strength at 24 hrs	17 lbf/in (3kN/m)	ASTM D 3019, Type III

# POWERply® Standard Cold Adhesive

## MAINTENANCE

Your local Tremco Roofing sales 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.

## PRECAUTIONS

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

## TECHNICAL SUPPORT

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



[www.tremcoroofing.com](http://www.tremcoroofing.com)  
3735 Green Road  
Beachwood, Ohio 44122  
1.800.852.6013

220 Wicksteed Avenue  
Toronto, Ontario, M4H 1G7  
1.800.668.9879

Tremco Roofing and Building  
Maintenance is part of Tremco  
Construction Products Group.

Tremco is a US Registered trademark of Tremco CPG Inc.

The information provided on this data page supersedes all previous data concerning this product and its application.

The Statements provided concerning the materials shown are intended solely as a general guide for material usage and are believed to be true and accurate. Since the manner of use is beyond our control, Tremco DOES NOT MAKE NOR DOES IT AUTHORIZE ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE, OR ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESSED OR IMPLIED, CONCERNING THIS MATERIAL EXCEPT THAT IT CONFORMS TO TREMCO'S PRODUCT SAMPLE. Buyer and user accept the product under those conditions and assume the risk of any failure, injury of person or property and loss or liability resulting from the handling, storage or use of the product, whether or not it is handled, stored, used in accordance with directions or specifications. UNDER NO CIRCUMSTANCE SHALL TREMCO BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM ANY BREACH OF WARRANTY. IN ALL CASES, TREMCO'S LIABILITY IS LIMITED, AT TREMCO'S OPTION, TO THE REPLACEMENT OF GOODS, OR THEIR VALUE, PROVEN TO BE DEFECTIVE IN MANUFACTURING.