

POWERply® Cold Adhesive SI

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® Cold Adhesive SI 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 Cold Adhesive SI is a cold process interply and aggregate surfacing adhesive for POWERply MB roof systems over approved roof insulation and base sheets. POWERply Cold Adhesive SI is the adhesive in a POWERply Roof System rated VSH (Severe Impact (SI) from hail) by FM Approvals. See FM Approvals RoofNav for applicable roof system configurations. Also, refer to UL Roofing Materials & Systems Directory for applicable fire rated 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 4.7 gal (17.8L) or 53 gal (200.6L) gallon containers.

CLEAN-UP

Mineral spirits.

STORAGE LIFE

One year in unopened containers.

APPLICATION

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 POWERply membranes in a uniform and continuous application of POWERply Cold Adhesive SI. 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.

POWERply® Cold Adhesive SI

COVERAGE RATE

2 gals/SQ (0.8 L/m²) per ply.
1.75 gal/SQ (0.7 L/m²) for membrane applied to gypsum fiber coverboard.

SURFACING OPTIONS

Gravel: Apply POWERply Cold Adhesive SI over roof surface at 5 gal/100 ft² (2.0 L/m²). Immediately broadcast 400-500 lb/100 ft² (19.4-24.4 kg/m²) 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 Cold Adhesive SI 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.

LIMITATIONS

- 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).

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	8.0-8.5 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	EPA Method 24
Lap Strength at 24 hrs	17 lbf/in (3kN/m)	ASTM D 3019, Type III

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.

PRECAUTIONS

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

TECHNICAL SUPPORT

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 weatherproofing technology, complement and extend the service of the Tremco Service Staff.



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 to 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.