

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.

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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/m²) per ply.

Gravel: Apply POWERply Standard Cold Adhesive 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 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

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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.



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