

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.

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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 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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