

# POWERply™ Standard Cold Adhesive LV

## A VOC Compliant Cold Applied Adhesive For Modified Bitumen Roof Systems

**Composition:** POWERply™ Standard Cold Adhesive LV is a proprietary cold process asphalt adhesive for modified bitumen membrane systems. POWERply Standard Cold Adhesive LV is asbestos free and meets the requirements of California's regulations for VOC levels in adhesives.

**Basic Uses:** POWERply Standard Cold Adhesive LV is designed for application as an adhesive for POWERply roof membranes over approved roof insulation and base sheets.

**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 with adhering cold applied BUR 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).

**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.

**Clean-Up:** Mineral spirits.

**Packaging:** Available in 5 (19L) or 53 (200L) gallon containers.

**Storage Life:** One year in unopened containers.

**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 lightweight concrete slope system.

| Product Advantages              |   |
|---------------------------------|---|
| Features                        | Benefits  |
| Cold-applied                    | <ul style="list-style-type: none"> <li>• No flames, hot kettles, smoke, or fire risks</li> <li>• Reduces equipment needs and start-up time</li> <li>• Adhesion not temperature dependent</li> </ul> |
| Low odor/asbestos free          | <ul style="list-style-type: none"> <li>• Can be readily used in restrictive areas, including schools and hospitals</li> </ul>   |
| High performance adhesive       | <ul style="list-style-type: none"> <li>• Welds modified bitumen sheets, forming monolithic membrane</li> </ul>  |
| Not classified as DOT Flammable | <ul style="list-style-type: none"> <li>• Shipping, storage, and handling of adhesive can be completed with few restrictions at lower costs</li> </ul>   |
| Versatile/flexible application  | <ul style="list-style-type: none"> <li>• Can be used in limited access areas</li> </ul>   |
| UL approved                     | <ul style="list-style-type: none"> <li>• Fire protection</li> </ul>   |



Roofing & Weatherproofing Peace of Mind™

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day. FAS-n-FREE Adhesive is the preferred method of solvent free, fastener free insulation attachment, unless otherwise specified.

**Acceptable Insulations:**

| Type          | Minimum Thickness* | Facer              |
|---------------|--------------------|--------------------|
| Wood Fiber    | 1/2" (13mm)        | Asphalt coated     |
| Fibrous glass | 3/4" (19mm)        | Paper              |
| Gypsum        | 1/4" (6mm)         | Treated fiberglass |

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

\* Minimum thickness for application of POWERply Standard Cold Adhesive LV. 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 LV. Apply POWERply membrane in a fresh application of POWERply Standard Cold Adhesive LV.

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.

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

**SURFACING OPTIONS**

**Gravel:** Apply POWERply Standard Cold Adhesive LV 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 1863-93.

**Smooth Surface:** Consult with your local Tremco Representative for specific applications suitable for your geographic area.

**Precautions:** Users must read container labels and Material Safety Date Sheets for health and safety precautions prior to use.

**Availability and Cost:** Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

**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.

**Guarantee/Warranty:** Tremco Incorporated warrants POWERply Standard Cold Adhesive LV to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this

**Physical Performance Characteristics**

**POWERply™ Standard Cold Adhesive LV**

| Property                 | Typical Value                       | Test Method           |
|--------------------------|-------------------------------------|-----------------------|
| Asbestos content         | None                                | EPA 600/R-93/116      |
| Viscosity @ 77°F         | 80,000-200,000 cP (80-200 Pa•s)     | ASTM D 2196-86 (1991) |
| Density @ 77°F           | 8.1 lb/gal (970 kg/m <sup>3</sup> ) | ASTM D 6511-00        |
| Nonvolatile content      | 75%                                 | ASTM D 6511-00        |
| Asphalt content, min.    | 42%                                 | ASTM D 6511-00        |
| Flash point              | >100°F                              | ASTM D 93-97          |
| Uniformity & Consistency | Pass                                | ASTM D 6511-00        |
| VOC                      | <250 g/L                            | ASTM D 6511-00        |

warranty, any POWERply Standard Cold Adhesive LV that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**Technical Services:** 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 weather-proofing technology, complement and extend the services of the Tremco Technical Service staff.

**Statement of Policy and Responsibility:** Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.



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