

POWERply® Endure™ BIO Adhesive



Low Odor, Two-Part, Bio-Based Polyurethane Adhesive for Roofing

FEATURES

Bio Based

Catalyzed Cure

High Solids

Low VOC

BENEFITS

Contains high percentage of rapidly renewable resource

Faster cure times than similar one-component products

100% Solids

Low odor, meets California VOC limits



DESCRIPTION:

POWERply® Endure™ BIO Adhesive is a two part urethane, 100% solids, bio-based, asbestos free, virtually odor free, cold applied roof membrane adhesive and is a USDA Certified Biobased product.

BASIC USES:

POWERply Endure BIO Adhesive is a cold process membrane interply adhesive for use with POWERply MB and BURmastic BUR roof systems. In addition, POWERply Endure BIO Adhesive may be used as the adhesive for BURmastic Composite Ply family membranes, POWERply APP, and POWERply SBS sanded backed membranes as a vapor retarder adhesive or as part of the AlphaGuard MT Plus or AlphaGuard BIO Plus roof systems. POWERply Endure BIO Adhesive may also be used as a flashing adhesive.

Refer to the UL Roofing Materials and Systems Directory for applicable roof system configurations.

PACKAGING:

Each Part A & Part B kit yields 4 gallons (15.1 L).
Part A - 5 gallon container, with 3.2 gal (12.1 L) base.
Part B - 1 gallon container, with 0.8 gal (3.0 L) curative.
Also available in 250 gal. (946.3 L) kits, with 4 bbls Part A and 1 bbl Part B.

COLOR:

Tan

GRADE:

3/16" (4.8mm) V-Notched Serrated Squeegee and 1/4" nap roller.
Can be spray applied.

POT LIFE:

20-25 minutes, 77°F (25°C)/50% RH.
**Temperature dependent - Increasing temperature reduces expected pot-life.*

STORAGE LIFE:

12 months in unopened containers. Recommended storage conditions are in an area sheltered from harsh weather conditions at temperatures ranging from 60-80°F (15-26°C) and low humidity. However, the unmixed components can withstand freezing conditions. Storage temperatures must not exceed 110°F (43°C). Do not store in direct sunlight.

APPLICATION:

Please refer to Tremco Roofing installation guidelines for general application procedures and follow good roofing practices per NRCA.

Mixing: Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.

Mix Part A (Base) for 1 minute before adding Part B (Curative). **After adding Part B, mix the combined materials for a minimum of two minutes, moving the mix blade from top to bottom.** Make sure to mix areas around side walls and bottom of pail. Improper mixing will result in non-curing material. **Never fully invert empty pails in attempt to drain material.** Final traces from sidewall of pail are typically not properly mixed. Using these final traces will result in non-curing material.

Do not break down kits into smaller quantities – MIX ENTIRE KIT.

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APPLICATION: (continued)

Acceptable Insulations

| TYPE* | MINIMUM THICKNESS** | ASTM STANDARD |
|--------------|---------------------|----------------|
| Wood Fiber | 1/2" (13mm) | C208 |
| Gypsum board | 1/4" (6mm) | C1177 or D1278 |

Installation Procedures: Starting at low point of roof, embed approved membranes/ ply sheets in a full, uniform, and continuous application of POWERply Endure BIO Adhesive. Ply shall never touch ply.

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. For POWERply MB granule surfaced membranes, apply loose granules into the excess bleedout to protect adhesive from UV exposure.

POWERply Endure BIO Adhesive may be used as a flashing adhesive with POWERply MB or Composite Ply family membranes. After mixing, apply adhesive to the back of the flashing membrane and press membrane into place. Mechanically attach flashing membrane along top edge of flashing to assure membrane will not slide prior to cure. Flashing height shall not exceed 18".

* Insulation board must be designated by the manufacturer as suitable for roofing application.
** Minimum thickness for application of the Tremco roof system. Follow insulation manufacturer's instructions to obtain minimum thickness for spanning metal deck ribs

COVERAGE RATE:

2.0 gallons/100 sq ft. (0.8 L/m²).

CLEAN-UP:

Before product cures, clean surfaces/equipment with Isopropyl Alcohol.

LIMITATIONS:

- Product material temperatures must be above 45°F (7°C) when mixing.
- Do not mix at material temperature above 100°F (37.8°C) because pot life will be greatly reduced.
- Do not adhere to expanded polystyrene or extruded polystyrene.
- Not to be used as an insulation adhesive, flood coat adhesive, or smooth roof coating.
- Do not apply to wet surfaces.

PRECAUTIONS:

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

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

PHYSICAL PROPERTIES:

| Property | Test Method | Typical Value |
|--------------------------------|-------------|-------------------------|
| Density | ASTM D1475 | 11.1 lbs/gal (1.3 kg/L) |
| Biobased Content | ASTM D6866 | 71%*** |
| Indentation Hardness | ASTM D2240 | 88 Shore A |
| Volume Solids | ASTM D2697 | 100% |
| Weight Solids | ASTM D1644 | 100% |
| Volatile Organic Content (VOC) | ASTM D3960 | 1 g/L (A+B mix) |
| Viscosity | ASTM D 2196 | 2,500 - 5,500 cp (mPas) |

*** POWERply Endure BIO Adhesive is a USDA Certified Biobased product and is listed in the product catalog at www.biopreferred.gov



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