

**OlyBond 500™ BA (BEAD ADHESIVE)**

**GENERAL:**

Versico's OlyBond 500 BA is a two-component, polyurethane construction grade, low-rise expanding adhesive designed for bonding insulation to various substrates. Olybond 500 BA is compatible with: HP Wood Fiberboard, polyisocyanurate insulation, EPS, DensDeck™, Strataguard™ and OSB. Compatible deck types include concrete, cellular lightweight concrete, gypsum, cementitious wood fiber, wood and painted or galvanized steel. Versico OlyBond 500 BA is also compatible with the following roofing materials: smooth BUR (previously exposed), mineral cap sheet, smooth (previously exposed) or granulated Mod-Bit and Versico's 725 Air and Vapor Barrier. OlyBond 500 BA is applied in beads or ribbons 6" or 12" o.c. depending on the wind zone, building height and code requirements to produce a strong adhesive bond between the insulation and the substrate. Factory Mutual approval over a variety of deck types and substrates has been achieved.

**TYPICAL PROPERTIES AND CHARACTERISTICS\*\*:**

| <b>Base</b>             | <b>Part A (1)<br/>Polymeric Isocyanate</b> | <b>Part B (2)<br/>Polyols, Surfactants &amp; Catalysts</b> |
|-------------------------|--------------------------------------------|------------------------------------------------------------|
| Mixing Ratios by Volume | 1:1 Part A to Part B                       |                                                            |
| Viscosity (CPS@25°C)    | 225                                        | 275                                                        |
| Avg. Net Weight         | 10.32 lbs/gal                              | 8.54 lbs/gal                                               |
| Packaging               | 5 gal. pail (19 L)                         | 5 gal. pail (19 L)                                         |
| Shelf Life              | 1 year                                     | 1 year                                                     |

**CAUTIONS AND WARNINGS:**

- 1. Review the applicable Material Safety Data Sheet for complete safety information prior to use.**
- The foam produced is an organic material. It must be considered as combustible and may constitute a fire hazard. The foam adhesive must not be left exposed or unprotected. Shield from heat and sparks.
- Do not smoke during application.
- Use with adequate ventilation. Avoid breathing vapors. Wear a NIOSH or MSHA approved respirator for organic vapors with prefilters and solvent resistant cartridges or supplied airline respirators while applying. Proper safety training is essential for all persons involved in the installation process. If inhaled, remove to fresh air and administer oxygen if breathing is difficult. Consult a physician immediately.
- Avoid contact with eyes. Safety glasses or goggles are required. If splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes. Contact a physician immediately.
- Avoid contact with skin. Wear long sleeves and pants. Wash thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water or corn oil. NOTE: Versico's special solvent resistant Hycron® or nitrile gloves are required when handling Part A directly.
- Job site storage temperatures in excess of 90°F (32°C) may affect product shelf life. Should the components be stored at temperatures lower than 55°F (13°C), restore to room temperature prior to use. Do not allow OlyBond 500 BA to freeze.
- All air intake vents on roofs must be closed during application of OlyBond 500 BA.
- 9. KEEP OUT OF THE REACH OF CHILDREN.**

**COVERAGE RATE:** For standard 12" o.c. bead application (may vary due to job site conditions)  
 Insulation attachment to: per set (5 gal Part A & 5 gal Part B)  
 Concrete, Wood, Smooth BUR (previously exposed),  
 granule surface Mod-Bit, Mineral Cap, or  
 multiple layers of insulation. 1500 to 1700 sq.ft.  
 Fibrous Cement, Gypsum, Lightweight Insulating  
 Concrete, and Steel Deck 1000 to 1200 sq.ft.

**APPLICATION:**

1. The surface to which the adhesive is to be applied shall be smooth, dry, free of fins, sharp edges, loose and foreign materials, oil and grease and standing water. All sharp projections and loose material shall be removed by sweeping, blowing or vacuum cleaning.
2. Adhesion tests must be conducted on lightweight concrete and gypsum decks to determine deck integrity prior to using the OlyBond 500 BA product for insulation securement.
3. Proper adhesion of existing roof coatings to their substrate must be verified prior to bonding to these materials.
4. Fibrous cement decks must be investigated for their ability to retain liquid adhesive. (Some types of fibrous cement decks may allow liquid adhesive to flow through the deck).
5. Apply a 1/2" to 3/4" wide bead of OlyBond 500 BA when the substrate and ambient temperature is 45° F (7° C) or above.
6. Select the appropriate version of OlyBond 500 BA based on the forecasted temperatures.
  - Part B Winter version (45° – 60° F / 7° – 16° C)
  - Part B Regular version (60° – 90° F / 16° – 32° C)
  - Part B Summer version (90° + F / 32° + C)

**Insulation Attachment**

1. Apply Olybond 500 BA using a PaceCart\* rig with beads spaced as outlined on the following chart:

| Building Height     | Bead Spacing (Perimeter)                      | Bead Spacing (Field) |
|---------------------|-----------------------------------------------|----------------------|
| 0 – 25 feet         | 6 inches o.c. - 4 feet perimeter              | 12 inches o.c.       |
| 25 – 50 feet        | 6 inches o.c. - 8 feet perimeter              | 12 inches o.c.       |
| 50 – 75 feet        | 6 inches o.c. - 12 feet perimeter             | 12 inches o.c.       |
| 75 – 100 feet       | 6 inches o.c. - 16 feet perimeter             | 12 inches o.c.       |
| 100 feet or greater | Contact Versico for bead spacing requirements |                      |

2. When following Factory Mutual guidelines, bead spacing in the perimeter and corner areas may differ from the table above.
3. Place 4' x 4' maximum insulation boards into Olybond 500 BA after allowing it to rise between 1/2" to 3/4" and develop string/body (approx. 1.5 - 2 min. at room temperature) but before the adhesive reaches a "tack-free" state.
4. Designate one person to walk and roll boards into place using a 150 lb. weighted roller adding constant weight or slitting boards where necessary until adhesive sets-up.

\* The PaceCart Dispenser (available through Olympic Manufacturing Group) is a lightweight, portable unit that utilizes a gravity feed system to transfer the 2-component OlyBond 500 BA adhesive from the hoppers to a low-pressure (30psi) pump. From the pump, the adhesive flows through unheated hoses to a disposable static mixing nozzle. Since the adhesive reaction occurs in the nozzle, clean up and maintenance is fast and easy. A single switch activates the unit so operation is simple.

\*\* General properties. Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification or specification range for any particular property of this product.

Hycron is a trademark of Becton Dickinson & Company.  
 StrataGuard is a trademark of Owens Corning Corporation.  
 DensDeck is a trademark of Georgia Pacific.  
 OlyBond 500 is a trademark of Olympic Manufacturing Group.