

# VERSICO'S OLYBOND 500™ BA (BEAD ADHESIVE)

## Overview

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®, Securock® 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 725TR Air and Vapor Barrier. Previously unexposed asphalt must be primed with CAV-GRIP™ or 702 Primer. 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.

## Coverage Rate

For standard 12" o.c. bead application (may vary due to jobsite conditions).

Insulation attachment to:

Concrete, wood, smooth BUR (previously exposed), Granular-surface Mod-Bit, Mineral Cap or multiple layers of insulation	per set (5 gal Part A & 5 gal Part B) 1,500 to 1,700 sq. ft.
Fibrous Cement, Gypsum, Lightweight Insulating Concrete and Steel Deck	1,000 to 1,200 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, grease and standing water. All sharp projections and loose material shall be removed by sweeping, blowing or vacuum cleaning. Previously unexposed asphalt surfaces must be primed with CAV-GRIP or 702 Primer.

2. Seal gaps between the wall/penetration and concrete deck with Versico 725TR or other suitable material to avoid condensation issues and positive pressure from air infiltration.
3. 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.
4. Proper adhesion of existing roof coatings to their substrate must be verified prior to bonding to these materials.
5. 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.)
6. Apply a **½"- to ¾"-wide bead** of OlyBond 500 BA when the substrate and ambient temperatures are 40°F (4°C) or above. Applying a wet bead less than ½" wide is not acceptable.

## 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'	6" o.c. – 4' perimeter	12" o.c.
25–50'	6" o.c. – 8' perimeter	12" o.c.
50–75'	6" o.c. – 12' perimeter	12" o.c.
75–100'	6" o.c. – 16' perimeter	12" o.c.
100' 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. Bead spacing of 12" o.c. is not acceptable at perimeters and corners.
3. Place 4' x 4' maximum insulation boards into Olybond 500 BA after allowing it to rise between ½" to ¾" and develop string/body (approx. 1½–2 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 OMG) is a lightweight, portable unit that utilizes a gravity feed system to transfer the two-component OlyBond 500 BA adhesive from the hoppers to a low-pressure (30 psi) pump. From the pump, the adhesive flows through unheated hoses to a disposable static mixing nozzle. Because 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.
7. Jobsite 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.
8. All air-intake vents on roofs must be closed during application of OlyBond 500 BA.
9. Olybond 500 BA does not adhere well to previously unexposed asphalt products. CAV-GRIP or 702 primer is required.
10. KEEP OUT OF THE REACH OF CHILDREN.

## Precautions

1. Review the applicable Material Safety Data Sheet for complete safety information prior to use.
2. The foam produced is an organic material. It must be considered combustible and may constitute a fire hazard. The foam adhesive must not be left exposed or unprotected. Shield from heat and sparks.
3. Do not smoke during application.
4. Use with adequate ventilation. Avoid breathing vapors. Wear a NIOSH- or MSHA-approved respirator for organic vapors with pre-filters 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.
5. 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.
6. 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: Solvent-resistant gloves are required when handling Part A directly.

### OLYBOND 500 BA TYPICAL PROPERTIES AND CHARACTERISTICS

Base	Part A (1) Polymeric Isocyanate	Part B (2) Polyols, Surfactants & Catalysts
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 (19-L) pail	5-gal (19-L) pail
Shelf Life	18 months	18 months