

# VERSICO'S OLYBOND 500™ SPOTSHOT

## Overview

OlyBond 500 SpotShot is a two-component, polyurethane construction-grade, low-rise expanding adhesive designed for bonding insulation to various substrates. OlyBond 500 SpotShot is compatible with: Wood Fiberboard, polyisocyanurate insulation, EPS, extruded polystyrene, DensDeck®, Securock® and OSB. Compatible deck types include concrete, cellular lightweight concrete, gypsum, cementitious wood fiber, wood and painted or galvanized steel. OlyBond 500 SpotShot is also compatible with the following roofing materials: smooth BUR (previously exposed), mineral cap sheet, smooth (previously exposed) or granulated Mod-Bit and Air and 725TR Vapor Barrier. Previously unexposed asphalt must be primed with CAV-GRIP™ or 702 Primer. OlyBond 500 SpotShot 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.

## 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. Previously unexposed asphalt 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 SpotShot product for insulation securement.
4. Proper adhesion of existing roof coatings to their substrate must be verified prior to bonding to these materials.

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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 SpotShot (standard or winter version) when the substrate and ambient temperatures are 0°F (-18°C) or above. Applying a wet bead less than ½" wide is not acceptable.
7. Select the appropriate version of OlyBond 500 SpotShot based on the forecasted temperatures.
  - OlyBond 500 SpotShot (40°F and above / 4°C)
  - OlyBond 500 SpotShot Winter (0° to 40°F / -18° to 4°C)

## Insulation Attachment

1. Apply OlyBond 500 SpotShot using a portable 1:1 applicator (oversized, dual-cartridge caulking gun)\* 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.	

When following Factory Mutual guidelines, bead spacing in the perimeter and corner areas may differ from the table above. Beads at 12" o.c. are not acceptable at perimeters or corners.

2. Place 4' x 4' maximum insulation boards into OlyBond 500 SpotShot 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.
3. 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 portable 1:1 applicator (available through OMG Incorporated) is a hand-operated, lightweight, portable unit that consists of an oversized, dual-cartridge caulking gun used to transfer the two-component OlyBond 500 SpotShot adhesive from the plastic cartridges to the substrate. From the applicator, the adhesive flows through a disposable static mixing nozzle and onto the substrate. As the adhesive reaction occurs in the nozzle, clean-up and maintenance is fast and easy. Each carton includes 4 tube sets and 6 static mixing tubes.

\*\* 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.

## Precautions

- 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 if concentrations of MDI exceed the TLV or are unknown. 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: Solvent-resistant gloves are required when handling Part A directly.
- 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 SpotShot to freeze.
- All air intake vents on roofs must be closed during application of OlyBond 500 SpotShot.
- SpotShot does not adhere well to previously unexposed asphalt products. Cav-Grip or 702 Primer is required.
- KEEP OUT OF THE REACH OF CHILDREN.

## Coverage

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

Per carton – 4 cartridge sets 400 to 600 sq. ft.

Insulation attachment to: Gypsum, lightweight concrete, concrete, wood, steel, smooth BUR, Mod-Bit, mineral cap, or multiple layers of insulation.

### TYPICAL PROPERTIES AND CHARACTERISTICS\*\*

Base	100-Part A Polymeric Isocyanate	100-Part B 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	0.2 gal per cartridge (0.75 L)	0.2 gal per cartridge (0.75 L)
Shelf Life	1 year	1 year

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