

WeatherBond

XPAND Adhesive

Overview

XPAND Adhesive is a two-component construction-grade insulating polyurethane adhesive. The low-rise, expanding characteristics of XPAND are designed to securely bond insulations to a variety of substrates. XPAND Adhesive is compatible with: Fiberboard, Polyiso, Extruded Polystyrene, SECUROCK®, EPS, SPF, DensDeck®, and OSB. Compatible deck types include concrete, cellular LWC, gypsum, cementitious wood fiber, wood, and painted or galvanized steel. XPAND is also compatible with the following roofing materials: smooth or gravel-surfaced BUR, mineral cap sheet, weathered smooth or granule-surfaced Mod-Bit, coal tar pitch, aged EPDM, aged EPDM Coating and WeatherBond's VapAir Seal™ 725TR. **Previously unexposed asphalt must be primed with CAV-GRIP™ III or 702 Primer for extrusion application.** XPAND is spray- or bead-applied to produce a strong, low-rise adhesive with superior wind uplift resistance and a nominal free-rise core density of 1.9 pounds per cubic foot.

Application

1. The surface to which adhesive is to be applied shall be dry, free of fins, protrusions, sharp edges, loose and foreign materials, oil, and grease. Depressions greater than ¼" (6 mm) shall be filled with XPAND Adhesive or other approved patching material. All sharp projections shall be removed. Previously unexposed asphalt must be primed with CAV-GRIP III or 702 Primer for extrusion application.
2. Seal gaps between the wall/penetration and concrete deck with VapAir Seal 725TR or other suitable material to avoid condensation issues and positive pressure from air infiltration.
3. For re-roofing sprayed-in-place (SPF) urethane roofs, all wet areas must be removed. The surface must then be scarfed or perforated, depending on the coating, before applying XPAND Adhesive.
4. Apply XPAND when the substrate and ambient temperature are 25°F (-4°C) or above when spraying with heated equipment or 60°F (16°C) when spraying with unheated equipment.
5. Set pre-heater and hose temperature to 120°F (49°C). Temperature settings will vary with conditions

REVIEW CURRENT WEATHERBOND INSTALLATION INSTRUCTIONS FOR SPECIFIC APPLICATION REQUIREMENTS.



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Insulation Attachment

1. Spray XPAND Adhesive on the substrate obtaining full coverage (approx. ⅛"–¼" thick after foaming).
2. Place insulation boards into XPAND Adhesive after allowing it to rise and develop string/body (approx. 1½–2 min. unless using Catalyst). The time it takes for the adhesive to develop string will vary based on environmental conditions (temperature and humidity).
3. Designate one person to walk and roll boards into place using the roller. Boards may be weighted or slit where necessary to keep flat until adhesive sets-up.
4. Adding Catalyst is recommended for insulation attachment to speed set-up time. Catalyst should be added according to the chart provided on the Catalyst can.

Precautions

1. REVIEW THE APPLICABLE SAFETY DATA SHEET FOR COMPLETE SAFETY INFORMATION PRIOR TO USE.
2. 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.
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 prefilters and solvent-resistant cartridges or supplied airline respirators while spraying. Proper safety training is essential for all persons involved in the installation process. If vapor is 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.
6. If XPAND Adhesive is splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes. Contact a physician immediately.
7. Avoid contact with skin. Wear long sleeved shirts and long pants. Wash hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water or corn oil. NOTE: Solvent resistant Hycron® or nitrile gloves are required when handling Part A.
8. Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. Should the components be stored at temperatures lower than 70°F (21°C), restore to room temperature prior to use. Do not allow XPAND to freeze (storage below 0°F (-18°C) for at least 3 days).
9. Use spray booths, windscreens, and/or lower spray pressure with spatter tips when spraying in windy conditions.
10. Precautions must be taken to prevent XPAND vapors or overspray from entering buildings during application. All air intake vents on roofs must be closed during application of XPAND.
11. KEEP OUT OF THE REACH OF CHILDREN.

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)	250	150 – 300
Avg. Net Weight	10.25 lbs/gal	8.75 lbs/gal
Packaging	15 gal drum (57 L)	15 gal drum (57 L)
Shelf Life	1 year	1 year

Typical R-value added for the use of XPAND Adhesive over smooth surfaces is 0.2 to 0.5 R. R-value may be higher as more adhesive is used on uneven surfaces.

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 range for any particular property of this product.

Coverage Rates*

Insulation attachment to:	Per set of 50's	Per set of 15's
Smooth Gypsum, LWC, Concrete, Wood, Steel, Smooth BUR, Mod-Bit, Mineral Cap or Multiple Layers of Insulation	8,500 – 9,000 sq.ft.	2,500 – 2,700 sq. ft.
Fibrous Cement	5,500 – 6,500 sq.ft.	1,650 – 2,000 sq. ft.
Gravel BUR	5,000 – 6,000 sq.ft.	1,500 – 1,800 sq. ft.

*Coverage rates may vary due to jobsite conditions.



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Single-Ply Simplified

P.O. Box 251 | Plainfield, PA 17081 | 866.471.5125 | FAX: 717.960.4034 | www.weatherbondroofing.com

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