

InfoTech™

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PLIOSEAL™ SIP Flashing Tape

STRUCTURAL INSULATED PANEL (SIP) FLASHING TAPE

DESCRIPTION: PLIOSEAL SIP flashing tape is a laminate of a specially-formulated, permanently pressure-sensitive, cured butyl-based adhesive and a unique cross-laminated polyethylene membrane. The adhesive has been designed to have excellent specific adhesion to a wide range of plywood and oriented strand boards (OSB). The polyethylene film has excellent strength and temperature resistance. Together they provide an excellent barrier to air and water.

PLIOSEAL SIP flashing tape is available in standard roll form in widths of 4", 6", 9", 12", and 18". The nominal thickness of the adhesive is 18 mils. Other widths and adhesive thicknesses are also available on a special order basis. All products are supplied on a high strength, specially-designed release liner.

- PRODUCT BENEFITS:**
- Proven technology and durability
 - High peel and shear strength
 - Self-healing
 - VOC free
 - No odors or fumes; meets air quality criteria for use as an interior sealant
 - Can be applied at extreme temperatures (-15 °F to 180 °F)
 - Service temperature range of -30 °F to 200 °F
 - Smooth, even film of adhesive assures a correct application of sealant
 - Quick and easy installation
 - Does not stain
 - Superb water vapor transmission resistance (WVTR)
 - Excellent resistance to water and many chemicals

SUGGESTED USES: Warm, moist interior air escaping into a roof panel can easily become trapped and condense when it comes into contact with cold exterior air. This condensation can promote rot in structural insulated panels (SIPs), as well as mold and mildew growth. Sealing the interior joints of wall-to-roof panels, as well as roof panel to roof panel, will reduce the potential for moisture collection in your SIP-constructed buildings.

PLIOSEAL SIP Flashing Tape, with its patented cured butyl rubber adhesive, is well-suited as an interior seam sealant for SIP construction, and prevents moist air from penetrating the seams between panels and along roof lines.

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TYPICAL PHYSICAL PROPERTIES *	
Base	Butyl Rubber
Color	Grey face backed by black adhesive
Adhesive Thickness	0.018"
Adhesive Properties Tensile Strength Elongation	100 psi 1,200%
Carrier Film	Cross-laminated high-density polyethylene
Carrier Film Thickness	4 mils (0.004")
Standard Rolls 100' Length 50' Length	4", 6", 9", 12" 12", 18"

* Typical Values: Based on material tested in our laboratories but variable from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or specification items.

Testing

Property	Result	Test Method
Adhesion to Plywood One-hour residence One-day residence Seven-day residence	48.6 pounds/foot width 59.8 pounds/foot width 62.4 pounds/foot width	ASTM D903, modified according to D1970
Water Absorption	0.05%	ASTM D1970
Thermal Stability	No flow of adhesive	ASTM D1970
Flexibility Temperature (@ 10X magnification)	No cracks -30 °F	ASTM D1970
Sealability around Nail	Pass	ASTM D1970
Waterproof Integrity after Low Temperature Flexibility	Pass	ASTM D1970
Waterproof Integrity of Lap Seam	Pass	ASTM D1970
Moisture Vapor Transmission Rate Ambient (71 °F./50% RH) 100 °F./18% RH	0.015 grams/sq. meter-hour 0.061 grams/sq. meter-hour	ASTM E96
Interior Emission as TVOC (Total Volatile Organic Compounds)	748 micrograms/meter ² -hour Formaldehyde - undetected	AQS – 006 Standard



METHOD OF APPLICATION:

Surface Preparation - All surfaces must be clean, dry, and free of dirt, grease, oil, and any other contaminants that may interfere with adhesion. Any panel damage must be repaired prior to installing the tape.

Tape Installation - Position the tape so that it is centered over the panel joint. Peel off several inches of release backing and press firmly into place. To ensure a tight seal and minimize air bubbles and wrinkles, tape should be pressed into oriented strand board (OSB) at the center, working outward with a smoothing motion to the edges. While one installer is unrolling the tape along the center line of detail, a second installer should remove release paper at a 45° angle and continue to press the tape into place. After the tape has been installed, wrinkles and bubbles must be removed with a roller or similar tool with adequate hand pressure to firmly mate the tape to the OSB surface.

Overlaps (T-joints) – Wall to ceiling, or ridge to ceiling tape should be installed before ceiling panel joints are taped. Intersections of ceiling panel tape with tape at the ridge or wall should be detailed so that the ceiling panel tape overlaps by a minimum of 3". Be sure to roll overlaps firmly and carefully to assure an airtight seal.

End of Roll – When the end of a roll is encountered, the new roll should be started by overlapping at least 3" of previously installed tape. Take care to roll overlaps firmly and carefully to assure an airtight seal.

Application Recommendations - All tape, standing seam, and lap details should be in accordance with the SIP panel manufacturer's specifications when applicable.

When generic installation guidelines are acceptable, Ashland recommends that PLIOSEAL SIP Flashing Tape extends at least 2" onto the edge of both adjoining panels.

HANDLING: PLIOSEAL SIP Flashing Tape contains ingredients that could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

Ashland maintains Material Safety Data Sheets on all of its products. Material Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers.

Our Material Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Ashland products in your facilities.

RECOMMENDED STORAGE: PLIOSEAL SIP Flashing Tape is a cured product and will not degrade in normal warehouse storage. In time, due to the aggressive adhesion of this product, the release liner may become difficult to remove. For this reason, the recommended shelf life is 12 months. Store indoors, out of direct sunlight between 60 °F and 80 °F. Always rotate stock..

DISPOSAL: Dispose of empty containers, application tools, and any product waste in accordance with applicable federal state and local regulations

