



Sustant
For the Built Environment

**High Performance
Sealant & Adhesive
Technologies for
Sustainable
Construction**

MANUS - BOND

SIP-seal brand **Low VOC Sealant and Adhesive**

SIP-seal is a high performance sealant and adhesive for SIPs construction. It provides superior performance as a joint sealant, a unique ability to bond diverse materials, excellent working properties and a significant green profile.

SIP-seal is based upon a proven formulation with broad industry application for over 15 years.

It passes vapor transmission tests as a SIP joint sealant, maintains its flexibility over time and offers working characteristics that exceed the demanding requirements of SIPs installers.

Smooth, consistent gunning, excellent adhesion, and superior longevity within a sealant that meets the most stringent sustainability goals.

Performance

- One part, low VOC, high solids sealant and adhesive for high performance building envelopes.
- Bonds to OSB, EPS, FRP, PVC, ABS, plywood, vinyl, aluminum, steel, concrete and PUR foam.
- Will not attack EPS
- Will not harden or become brittle
- Remains flexible after cure (-75F to 250F)
- USDA accepted for agricultural buildings.
- Highly durable and UV resistance
- ASTM C920

Working properties

- Application Temp 0 F to 120 F – will not freeze
- Cures in the presence of moisture
- Easy and consistent flow
- Shelf life 12 months stored below 80 degrees F.

Sustainability

- HAPs free, Isocyanate free, solvent free
- VOC – less than 12g/L
- LEED 4.1 Low-emitting materials
- LEED for Homes
- Falls below SCAQMD and CARB thresholds

Technical Data

SIP-seal

Specific Gravity	1.4-1.5
Tack Free Time	Less than 1 hour @77 F/50% RH
Skin Time	Less than 30 minutes @ 77 F/50% RH
Sag	Non-sagging
Tensile Strength	225 psi
Lap Shear	275 psi
Elongation	275 %
High Temperature Resistance	Up to 300 F for short periods
Low Temperature Flexibility	Properties retained to -75 F
Shore A	45-50
Corrosive Properties	Non-corrosive
Staining	Non-staining
UV Stability	After 2000 hours UV-A no change in appearance or physical properties (ASTM G26)
Packaging	10.1 oz tubes, 10 and 20 oz sausage packs, 1,3,5,& 55 gal
Standard colors	Bright White, White, Aluminum Gray, Black
Surface Preparation: Apply to clean dry surfaces free of contaminants that can interfere with adhesion. Remove any old adhesive before applying SIP-seal.	
Painting: SIP-seal can be painted with most industrial and commercial paints. Test compatibility of paint with SIP-seal before proceeding.	
Storage Life: 12 Months – For maximum shelf life, store unopened product at or below 80 degrees F.	
Precautions: Use with adequate ventilation. Inhalation of vapor during application and cure may cause slight eye or throat irritation. In case of contact with eyes, lips or mouth, flush thoroughly with water. If irritation persists, consult a physician. Avoid repeated, prolonged contact with skin. See MSDS for additional information. KEEP OUT OF REACH OF CHILDREN	
Technical Service: Sustant and Manus technical representatives are always available to provide assistance. Please contact our technical service department with your questions or requests for specific applications.	
Limited Warranty: Any goods proved defective will be replaced or the purchase price refunded. The limited warranty described herein is in lieu of any other warranty, expressed or implied, including any implied warranty of merchantability or fitness for a particular use. The user shall determine suitability of the product for its intended use. Liability for any incidental or consequential damage or loss is excluded. The user assumes all risks of the product's use, handling and storage.	
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Applications

Manus Bond SIP-seal is an industrial grade sealant and adhesive formulated for high performance applications. This one part moisture cure sealant and adhesive has proven itself with years of use in transportation OEM and construction.

For Construction:

- SIPs panel sealant
- Window and door sealant
- Agricultural building sealant
- Sub-floor adhesive
- Panel adhesive
- Bonding to steel structures
- Bonding architectural woodwork to interior walls
- Adhering resin panels
- Adhering solid surface

Manufacturing:

Use SIP-seal as a structural adhesive for assemblies of difficult to bond materials such as frp, abs, pvc, metal, resin panels, wood, etc.

Application instructions:

Apply in continuous beads in accordance with the SIP manufacturer's manual. Apply to clean, dry, dust free and frost free surfaces to ensure a proper seal.