



TECHNICAL DATA SHEET

OSI
Professional Grade
Adhesives & Sealants

SW-325
Heavy Duty Shear & Drywall
Adhesive

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DESCRIPTION

OSI® SW-325 is a high performance, heavy duty latex based construction adhesive designed for drywall applications and fabricating shear-wall rated assemblies. This non-flammable, low gassing adhesive can be used for all interior and in-plant construction use. This ultra-low VOC product offers fast strength development and high shear strength, making it well suited for a variety of construction projects requiring high bond strength. The product's unique formulation offers Green Builders a high performance construction adhesive over traditional solvent based adhesives without sacrificing strength and performance. Engineered for use with most building materials.

RECOMMENDED USES:

- Bonding drywall to wood or metal framing
- Adhering foamboard, decorative paneling and other types of panels to wood furring strips, concrete walls or drywall
- Can be used in most interior remodeling or repair projects. Bonds to drywall, paneling, all types of wood trim, plywood, hardboard, OSB, countertops and similar materials
- Can be used for recreational and prefab modular manufacturing

NOT RECOMMENDED FOR:

- Underwater applications or permanent water immersion
- Applications requiring temperature resistance greater than 170°F (77°C)
- Exterior applications where rain is expected within 24 hours
- Use on mirrors and metals that will corrode
- Bonding two non-porous surfaces
- Polyethylene, polypropylene, Nylon™ or Teflon™
- Cement Board (Durock™)

FEATURES & BENEFITS:

Feature	Benefits
Ultra low VOC content.....	Meets stringent State and Federal VOC requirements
Water-based adhesive.....	Non-flammable, environmentally friendly, non-toxic
Low odor.....	Great for indoor projects – no strong solvent odor
Bonds to most building materials.....	Provides a strong, durable bond to multiple surfaces
Gap filling.....	Will bridge minor gaps when bonding irregular Surfaces
Easy cleanup with water (uncured adhesive).....	Eliminates the use of harsh cleaning chemicals
High Grab.....	Reduces nailing and fastener requirements by up to 50%



Item #	Package	Size
827631	Paper Cartridge	28 fl. oz. (825 mL)

COVERAGE

For a 28 fl. oz. cartridge:

A ¼" (6 mm) bead extrudes approximately 86 ft. (26 m).

A 3/8" (9.5 mm) bead extrudes approximately 38 ft. (12 m).

DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun and tool to puncture inside seal of cartridge.

Safety Precautions:

Wear gloves.

Preparation:

The temperature of the product, the surfaces and the working area must be above 40°F (4°C) and below 100°F (38°C). For best performance, apply adhesive at 70°F (21°C). Ensure surfaces to be bonded are clean, dry, structurally sound and free of dust, grease, oil, and other foreign contaminants. Pre-cut and fit materials before applying adhesive. Cut off tip of cartridge in an "X" cutting method, cutting both sides of the nozzle. Puncture inside seal of cartridge.

Application:

General Construction Use:

Using a caulking gun, apply adhesive to surfaces using a ¼" (6 mm) to 3/8" (9.5 mm) round bead size. Join surfaces together within 10 minutes of application. If work is delayed, remove excess adhesive and begin again. Note: Actual cure time will vary depending upon ambient conditions at the time of application.

Paneling and Foamboard Installation:

Apply continuous beads of adhesive to studs or furring strips (wood or metal). For wall surfaces, prepare surface accordingly and apply continuous parallel beads 12" (30 cm) to 16" (40 cm) O.C. Position panel and press firmly into place. Use finishing nails or mechanical fasteners along top and bottom edges to hold panels in place. Temporary blocking of panels may be required until adhesive sets.

Drywall Installation:

Apply adhesive in the same manner as detailed in paneling instructions. Field fasteners may be required if gypsum board shows evidence of warping. Note: Field fasteners are required 24" (61 cm) O.C. for all ceiling applications in addition to perimeter fasteners.

Clean-up:

Clean tools and uncured adhesive residue immediately with warm water and soap. Cured adhesive may be carefully cut away with a sharp-edged tool.

STORAGE AND DISPOSAL

DAMAGED BY FREEZING. Store in a cool, dry location at room temperature. For maximum shelf life store at 75°F (24°C). Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

LABEL PRECAUTIONS

CAUTION! CONTAINS ETHYLENE GLYCOL and Crystalline Silica. Avoid eye contact. Do not take internally. Use with adequate ventilation. **KEEP OUT OF REACH OF CHILDREN.**

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Off-White	<u>Application Temperature:</u>	40°F (4°C) to 100°F (38°C)
<u>Appearance:</u>	Thick paste	<u>Repositioning Time:</u>	20 minutes @ 70°F, 50% Relative Humidity
<u>Base:</u>	Poly Vinyl Acetate (PVA)	<u>Cure Time:</u>	48 hours Cure time depends upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Odor:</u>	Mild acrylic odor		
<u>Viscosity:</u>	225,000 to 325,000 cps		
<u>Solids Content:</u>	70% by weight		
<u>VOC Content:</u>	0.1% by weight (< 2 g/L)		
<u>Shelf Life:</u>	24 months from date of manufacture (unopened)		
<u>Lot Code Explanation:</u>	YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year For example: 09061 = 61 st day of 2009 = March 2, 2009		
(Lot code stamped on bottom plunger of cartridge)			

Typical Cured Performance Properties

<u>Color:</u>	Off-White
<u>Cured Form:</u>	Non-flammable solid
<u>Service Temperature:</u>	10°F (-12°C) to 160°F (71°C)
<u>Water Resistant:</u>	Yes - Do not use outdoors if rain is expected within 24 hours.
<u>Shear Strength</u> (ASTM C 557-99):	24 hours @ 73°F: 26.3 psi 14 days @ 73°F: 42.3 psi
<u>Tensile Strength:</u> (ASTM C 557-99):	24 hours @ 73°F: 18.3 psi 14 days @ 73°F: 27.5 psi
<u>Specifications:</u>	<ul style="list-style-type: none"> ▪ Tested per ASTM E 72 – Racking Load Evaluation of Sheathing Materials on a Standard Wood Frame ▪ Conforms to the performance characteristics of ASTM C 557 ▪ Complies to the following VOC regulations: <ul style="list-style-type: none"> ▪ SCAQMD Rule 1168 VOC ▪ CARB ▪ BAAQMD