



# TECHNICAL DATA SHEET

CONSTRUCTION, SHEAR & DRYWALL ADHESIVE

## SW325

DESIGNED FOR SHEAR WALL CONSTRUCTION



**Description:** OSI SW325 Heavy Duty Shear and Construction Adhesive 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.

**Available As:**

Item #	Size	Color
827631	28 fl oz (828 ml)	White

**Features & Benefits:**

- High Bond Strength
- Rapid Bond Development
- Fast Set, Fast Cure
- Bridges Minor Gaps in Framing
- Bonds to Most Building Materials

**Recommended For:**

OSI SW325 is for 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, for recreational and prefab modular manufacturing. OSI SW325 bonds to drywall, paneling, all types of wood trim, plywood, hardboard, OSB, foam board, countertops and similar materials.

**For Best Results:**

- Not recommended for underwater applications or permanent water immersion
- Do not use for applications requiring temperature resistance greater than 170°F (77°C)
- Do not use for exterior applications where rain is expected within 24 hours
- Do not use on mirrors and metals that will corrode
- One surface should be porous. Not recommended for bonding two non-porous surface
- Do not use on polyethylene, polypropylene, polytetrafluoroethylene (PTFE)/Teflon® or nylon or Cement Board (Durock®)

**Coverage:**

For a 28 fl. oz. (828 mL) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 86 ft. (26 m)
- A 3/8" (9.5 mm) bead extrudes approximately 38 ft. (12 m)



# TECHNICAL DATA SHEET

## Typical Uncured Physical Properties:

Color:	White	
Appearance:	Thick paste	
Base:	Poly Vinyl Acetate (PVA)	
Odor:	Mild acrylic odor	
Specific Gravity:	1.224	
Viscosity:	225,000 to 325,000 cps	
% Solids by Weight:	70%	
VOC Content:	<0.1% by weight	CARB
	49 g/l	SCAQMD rule 1168
Shelf Life:	24 months from date of manufacture (unopened)	
Lot Code Explanation:	<b>YYDDD</b>	
Printed on plastic nozzle	<b>YY=</b> Last two digits of year of manufacture <b>DDD=</b> Day of manufacture based on 365 days in a year Example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014	

## Typical Application Properties:

Application Temperature:	Apply between 40°F (4°C) and 100°F (38°C)	
	For best results, use at 70°F (21°C)	
Open Time:	60 minutes	At 70°F and 50% relative humidity
Repositioning Time:	15 minutes	
Cure Time:	48 hours	
	Time is dependent on temperature, humidity, porosity of substrate and amount of adhesive applied	
Extrusion Force:	30 lbf	At 73°F
Vertical Sag:	0.05 inches	ASTM C639

## Typical Cured Performance Properties:

Color:	White	
Cured Form:	Non-flammable solid	
Service Temperature:	10°F (-12°C) to 160°F (71°C)	
Water Resistant:	Yes. Do not use outdoors if rain is expected within 24 hours	
Shear Strength:	ASTM C557	
24 hours @ 73°F:	26.3 psi	
14 days @ 73°F:	42.3 psi	
Tensile Strength:	ASTM C557	
24 hours @ 73°F:	18.3 psi	
14 days @ 73°F:	27.5 psi	
Shear Strength :	ASTM D3498	
Wet Lumber:	195 psi	
Frozen Lumber	125 psi	
Dry Lumber:	221 psi	
Gap Filling:	228 psi	
Moisture Resistance:	158 psi	no delamination
Specifications:	<ul style="list-style-type: none"> <li>• Tested per ASTM E72 – Racking Load Evaluation of Sheathing Materials on a Standard Wood Frame</li> <li>• Meets the performance requirements of ASTM C557</li> <li>• Complies to the following VOC regulations:               <ul style="list-style-type: none"> <li>○ SCAQMD Rule 1168 VOC</li> <li>○ CARB</li> <li>○ BAAQMD</li> </ul> </li> </ul>	



# TECHNICAL DATA SHEET

**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 1/4" (6 mm) to 3/8" (9.5 mm) round bead size. Join surfaces together within 60 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.

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**Storage & Disposal:**

DAMAGED BY FREEZING. Store in a cool, dry place 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.

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**Label Precautions:**

**CAUTION!** Contains ethylene glycol and crystalline silica. May cause skin, eye and respiratory irritation. Avoid contact with eyes and skin. Use with adequate ventilation. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes. For skin contact wash thoroughly with soap and water. If affected by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN.**

**WARNING:** This product contains chemicals known to the State of California to cause cancer.

**Refer to Safety Data Sheet (SDS) for further information.**

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**Limited Warranty:**

This product is warranted to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This limited warranty gives you specific legal rights, which vary from state to state. Henkel may be contacted at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET for warranty assistance.

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**OSI Tougher than the Elements. For Professional Use Only. The Battle will be Fierce.**

OSI works side by side with residential builders, contractors and remodeling professionals who use our products everyday on their jobsites. OSI combines this deep understanding with the sophisticated global innovation and manufacturing excellence of Henkel to make the world's best professional-grade caulks, sealants and adhesives.

1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET

[www.ositough.com](http://www.ositough.com)



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