



# TECHNICAL DATA SHEET

## DRYWALL PANEL ADHESIVE

# F38

## HIGH BOND STRENGTH



**Description:** OSI® F38 Drywall and Panel Adhesive is a professional grade, latex-based construction adhesive designed for drywall and other panel applications. 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
1498717	28 fl oz (828 ml)	Tan

**Features & Benefits:**

- High Bond Strength
- Low Odor Formula
- Allows Less Fasteners to be Used
- Bridges Minor Gaps in Framing
- Reduces Sound Transmission

**Recommended For:**

OSI F38 is best suited for bonding gypsum board to wood or metal studs, laminating gypsum board to gypsum board and bonding gypsum board to concrete or block walls. It is widely used in new construction of single-family and multi-family homes, manufactured housing, commercial construction and all remodeling, remedial and renovation projects where drywall or gypsum products are installed. OSI F38 is designed to make installations quick, easy and less costly. When applied as directed, the adhesive combined with the approved mechanical fasteners is the preferred method for permanent, safe installations. It bonds to drywall, paneling, all types of wood trim, plywood, hardboard, OSB, foam board, countertops and similar materials.

**For Best Results:**

- Do not use for bonding of two non-porous surfaces
- Do not use on cement board (Durock®)
- Not recommended for underwater applications or permanent water immersion
- Not recommended for 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 polyethylene, polypropylene, polytetrafluoroethylene (PTFE)/Teflon® or nylon
- Adhesive should be fully cured before applying joint compound and finishing the wall board.
- Jobsite conditions should be maintained at or above 55°F to minimize the effect of temperature, humidity, ventilation, and free moisture throughout the installation and finishing process.

**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)



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## Typical Uncured Physical Properties:

Color:	Tan	
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> <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 55°F (13°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	*Cure 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:	Tan	
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 ps	
Dry Lumber:	221 psi	
Gap Filling:	228 psi	
Moisture Resistance:	158 psi no delamination	
Specifications:	<ul style="list-style-type: none"><li>• ASTM E72 – Racking Load Evaluation of Sheathing Materials on a Standard Wood Frame</li><li>• Meets the performance requirements of ASTM C557</li><li>• Greenguard® Certified to Specifications list</li></ul>	



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## Directions:

### Tools Typically Required:

Utility knife, caulking gun and tool to puncture inside seal of cartridge. For best application results, OSI® recommends the use of a high quality caulking gun such as the Albion® B12Q Cartridge Gun.

### 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 nozzle to desired bead size (3/8" is recommended). 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 Foam board 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 ensure entire surface of board is pressed firmly to the stud. Adhesive shrinkage during cure will pull board closer to the stud and assure a tight fit. For best results, boards should not be finished until adhesive has fully cured. 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 to Wood & Metal Studs:

Apply a continuous 1/4" to 3/8" bead of adhesive to all framing members starting 4 to 6 inches from the top and ending 4 to 6 inches from the bottom of where each panel is positioned on the stud. Apply two 1/4" parallel beads of adhesive on framing members where joints abut. Position gypsum board and ensure entire surface of board is pressed firmly to the stud. Adhesive shrinkage during cure will pull board closer to the stud and assure a tight fit. For best results, boards should not be finished until adhesive has fully cured. Use flat panels only. Do not use warped panels unless they have been pre-bowed. Follow the fastening schedule for Adhesive Nail-on Attachment in the Gypsum Association Manual (GA-216) or Table No. 47-G of the Uniform Building Code. Perimeter fasten 16" O.C. for walls and ceilings and 24" O.C. in the field of ceiling applications. Field fasteners are not required for wall construction unless walls show evidence of warping. For shear wall construction, field fasteners are required.

#### Laminating Gypsum Board:

Apply a continuous 1/4" to 3/8" zigzag bead of adhesive 12" O.C. to the base ply or fixed structure. Position and firmly press panels to the bonding surface. Follow recommended fastening schedules in Table No. 47-H of the Uniform Building Code for two-ply construction or refer to the Gypsum Association Manual (GA-216) for multi-ply construction. For single-ply application to concrete walls, concrete should be cured at least 28 days and free of any release agents prior to using the adhesive. Permanent mechanical fasteners are required the same as for applications to wood or metal studs. Field fasteners are recommended.

#### 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 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. 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 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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