



TECHNICAL DATA SHEET

HEAVY DUTY DRYWALL ADHESIVE

F38

HIGH BOND STRENGTH

HEAVY DUTY



Description: OSI F38 Heavy Duty Drywall Adhesive is a solvent-based low-VOC formula specifically designed for adhering drywall to structurally sound surfaces in residential applications. This “no sag” drywall adhesive is formulated for bonding gypsum board to wood or metal studs, laminating gypsum board to gypsum board and bonding gypsum board to concrete or block walls. OSI F38 Heavy Duty provides sufficient open time for the positioning of gypsum panels and will allow up to 50% reduction in the use of mechanical fasteners generally required in applications without adhesives. Meets ASTM C557 standards. OSI F38 Heavy Duty is a solvent-based adhesive that can be sold in all 50 states.

Available As:

Item #	Size	Color
1630096	28 fl oz (828 ml)	Tan

Features & Benefits:

- High Bond Strength
- High Initial Grab - Reduces Nailing up to 50%
- Bridges Minor Gaps in Framing
- Reduces Sound Transmission
- “No Sag” Formula

Recommended For:

OSI F38 Heavy Duty 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 Heavy Duty 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.

For Best Results:

- Do not use on unlined expanded or extruded polystyrene foam, polystyrene or ABS plastic panels
- Not recommended for applications requiring temperature resistance greater than 150°F (66°C)
- Adhesive needs to be fully cured prior to applying joint compound and finishing the wall board
- Jobsite conditions should be maintained at or above 55°F (13°C) 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)



TECHNICAL DATA SHEET

Typical Uncured Physical Properties:

Color:	Light Tan	
Appearance:	Thick paste	
Base:	Synthetic rubber and resins Formaldehyde free	
Odor:	Sweet, aromatic	
Specific Gravity:	1.44	
Viscosity:	210,000 cps	
Flashpoint:	1.4°F (-17°C)	
% Solids by Weight:	80%	
VOC Content:	0.3% by weight	CARB
	5.2 g/l	SCAQMD rule 1168
Shelf Life:	18 months from date of manufacture (unopened)	
Lot Code Explanation:	YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year Example: 14061 = 61 st 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/Repositioning Time:	15 minutes*	*At 78°F and 50% relative humidity
Cure Time:	2 to 7 days*	*Time is dependent on temperature, humidity, porosity of substrate and amount of adhesive applied
Extrusion Force:	Approx. 60 lbs	At 73°F
Vertical Sag:	0.125 inches	ASTM C639

Typical Cured Performance Properties:

Color:	Light Tan	
Cured Form:	Non-flammable solid	
Service Temperature:	-20°F (-29°C) to 150°F (66°C)	
Water Resistant:	Yes	
ASTM C 557 Results:		ASTM C557
24 Hour Shear	71.3 psi	
14 Day Shear	70.8 psi	
Cyclic Exposure Shear	62.7 psi	
24 Hour Tensile	35.1 psi	
14 Day Tensile	34.7 psi	
Specifications:	Meets or exceeds the following specifications: <ul style="list-style-type: none">• ASTM C557	



TECHNICAL DATA SHEET

Directions:

Tools Typically Required:

Utility knife, caulking gun or trowel, tool to puncture cartridge seal, hammer, nails or screws. For best application results, OSI® recommends the use of a high quality caulking gun such as the Albion® B12 Cartridge Gun.

Safety Precautions:

Interior applications require ventilation to the outside during application and cure. Wear gloves and wash hands after use.

Preparation:

The temperature of the adhesive, the surfaces and the working area must be between 0°F (-18°C) and 100°F (38°C). For smooth, fast, easy application during cold weather, store adhesive at room temperature (70° ± 5°F) 24 hours prior to use. All surfaces must be clean and free of dust, dirt, oil, mud, ice, snow, standing water and other foreign substances prior to application. To obtain maximum adhesion, surfaces should be flat and close fitting to provide adequate contact. Release agents must be removed from poured concrete. Newly poured concrete must be allowed to cure 28 days prior to adhesive application. Painted surfaces must be well cured and free of loose paint. Cut nozzle to desired bead size and puncture inner seal. Proper adhesive application is obtained by double cutting the spout on each cartridge, producing 45 degree angles opposite each other.

General Application Guidelines:

Pre-cut and fit materials before applying adhesive. Apply no more adhesive than can be used in 10 minutes. If work is delayed, remove excess adhesive and begin again. Use temporary bracing or blocking until adhesive sets. Adequate ventilation must be provided when used in all interior applications.

Applications:

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, ensuring entire surface of panel is pressed firmly to the 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.

Fire-Resistive Construction:

OSI F38 Drywall & Panel Adhesive is not a fire-rated adhesive. However, this adhesive may be used in fire-rated assemblies providing the framing, fastener size, type and spacing follow that of the system tested. No deviation is permitted whether or not adhesive is used.

Clean-up:

Clean tools and uncured adhesive residue immediately with mineral spirits or paint thinner in a well-ventilated area to the outdoors. Cured adhesive may be carefully cut away with a sharp-edged tool.

Storage & Disposal:

NOT DAMAGED BY FREEZING. Store away from heat, flame and spark in a cool, well-ventilated place at room temperature (70° ± 5°F). In cold weather, product should be kept at room temperature for at least 24 hours prior to use to improve extrusion. Use an approved hazardous waste facility for disposal.

Label Precautions:

DANGER! EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION.

DANGER! Contains acetone and methyl acetate. **EXTREMELY FLAMMABLE.** Vapors may ignite explosively. Do not use or store near heat, sparks or open flame. Do not smoke when using this product. Extinguish all flames and pilot lights and turn off all sources of ignition, including stoves, heaters and electric motors during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. Use in a well-ventilated area. Avoid breathing vapors. Avoid contact with eyes and skin. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area to obtain fresh air. Do not take internally. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center immediately. For eye contact flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN.**



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WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage or may cause cardiac arrhythmia. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

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

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.

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.



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



OSI Brand is part of the Henkel family of brands. Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies.

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