



TECHNICAL DATA SHEET



F-38™

Drywall & Panel Adhesive

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DESCRIPTION

OSI® F-38™ Drywall & Panel Adhesive is a solvent-based low-VOC formula specifically designed for adhering drywall to structurally sound surfaces in residential applications. The only "No Sag" Drywall Adhesive, F-38™ 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. F-38™ 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® F-38™ Drywall Solvent-based Adhesive can be sold in all 50 states.

RECOMMENDED FOR:

Formula #38™ 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. Formula #38™ 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.

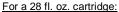
NOT RECOMMENDED FOR:

- Use on unlined expanded or extruded polystyrene foam
- Use on polystyrene or ABS plastic panels
- Applications requiring temperature resistance greater than 150°F (66°C)
- Bonding two non-porous surfaces

FEATURES & BENEFITS:

Feature	Benefits
The only "No Sag" Drywall Adhesive	Won't drip during application
Low VOC Formulation	Meets stringent State and Federal VOC Regulations; Can be sold in all 50 states.
Cold Weather Gunnable	Can be applied in temperatures as low as 1°F
Water and weatherproof	Can be used for interior or exterior applications
High initial grab	Reduces fastener use up to 50 to 60%
Gap filling	Use on irregular surfaces. Bridging capabilities up to 1/4"; Reduces sound transmission

COVERAGE



A ¼" (6 mm) bead extrudes approximately 85.8 ft (26.1 m). A 3/8" (9.5 mm) bead extrudes approximately 38.1 ft (11.6 m).



Item #	Package	Size
1630096	Paper Cartridge	28 Fl. Oz.

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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 $0^{\circ}F$ (- $18^{\circ}C$) and $100^{\circ}F$ (38°C). For smooth, fast, easy application during cold weather, store adhesive at room temperature ($70^{\circ} \pm 5^{\circ}F$) 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 ¼" 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 ¼" parallel beads of adhesive on framing members where joints abut. Position gypsum board and press firmly in place. 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 ¼" 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.

Fire-Resistive Construction:

F-38™ 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 AND 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! 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.**

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

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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	
Color:	Tan	Application Temperature:	Apply and cure between 0°F (-18°C) and 100°F (38°C)
Appearance:	Thick paste	.	` '
Base:	Synthetic Rubber and Resins	Open time:	10 minutes
Specific Gravity:	1.39	Cure Time:	2 to 7 days Note: Cure time is dependent upon application conditions such as, temperature, humidity and amount of adhesive applied.
Viscosity:	250,000 cps		
Flash Point:	1.4°F (-17°C)	Odor:	Strong solvent odor (Apply and cure in a well ventilated area)
VOC Content:	0.25% by weight (7.5 g/L)		ventulated area)
Shelf Life:	24 months from date of manufacture (unopened)		
Lot Code Explanation:	YYDDD YY = Last two digits of year of manufacture		
(Lot code is stamped on bottom plunger of	DDD = Day of manufacture based on 365 days in a year		
cartridge)	For example: 09061 = 61 st day of 2009 = March 2, 2009		

Typical Cured Performance Properties

<u>Color:</u>	Tan	Specifications:	Meets or exceeds ASTM C 557
Cured Form:	Non-Flammable, Rubbery solid	ASTM C 557 Results:	
	•	10.1.4 – 24 Hour Shear	60 psi (Requirement = 10 psi)
Service Temperature:	-20°C (-29°C) to 150°F (66°C)	10.1.5 – 14 Day Shear	60 psi (Requirement = 40 psi)
		10.1.6 – Cyclic Exposure Shear	60 psi (Requirement = 32 psi)
Water Resistant:	Yes	10.2.3 – 24 Hour Tensile	30 psi (Requirement = 15 psi)
		10.2.4 – 14 Day Tensile	30 psi (Requirement = 25 psi)