



Formula #38[™] VOC Drywall & Framing Adhesive

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DESCRIPTION

OSI® Formula #38[™] VOC Metal Framing & Drywall Adhesive is a high quality, non staining, waterproof adhesive specially developed for adhering drywall to structurally sound surfaces. The unique light colored formula 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. Formula #38[™] VOC 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. The mastic type properties of this product offer excellent initial tack and rapid bond development and the ability to bridge minor framing irregularities that occur. When cured, Formula #38[™] VOC provides permanent holding power, yet is flexible enough to allow for structural movement due to settling. Structural stress is distributed equally throughout the bonding area which provides for greater strength and safety in wall and ceiling assembling without weak points.

RECOMMENDED FOR:

Formula #38[™] VOC 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[™] VOC 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.

LIMITATIONS:

- Do not apply at temperatures lower than 1°F (-17°C) or above 100°F (38°C)
- Do not use for polystyrene tub surrounds or polystyrene foams
- Polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE) and acrylic
- Permanent water immersion
- Not recommended for prefinished or vinyl covered MDF paneling

FEATURES & BENEFITS:

Feature	Benefits
Low VOC formulation	Meets stringent State and Federal VOC requirements
Water and weatherproof	Can be used for interior or exterior applications
Cold Weather Gunnable	Can be used in temperatures as low as $1^{\circ}F$
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

For a 28 fl. oz. cartridge:

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).

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Item #	Package	Size
1284087	Paper Cartridge	28 Fl. Oz.

DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun or trowel, long, thin tool to puncture cartridge seal, hammer, nails or screws.

Safety Precautions:

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

Preparation:

The temperature of the adhesive, the surfaces and the working area must be between $1^{\circ}F$ (- $17^{\circ}C$) 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. Ensure surfaces to be bonded are clean, dry, structurally sound and free of dust, grease, oil or other contaminants. Pre-fit all materials prior to applying product. Mechanical fasteners must be used and kept in place until adhesive is fully cured. Cut off tip of cartridge at 45° angle to desired bead size and puncture inner seal of cartridge. Recommended bead size is $\frac{14^{\circ}}{2}$.

General Application Guidelines:

Pre-cut and fit materials before applying adhesive. Apply no more adhesive than can be used in 15 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-201) 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-201) 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.

<u>Clean-up:</u>

Clean tools and uncured adhesive residue immediately with mineral spirits. 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.

PRECAUTIONS

DANGER! EXTREMELY FLAMMABLE. Contains Methyl Acetate, Acetone, Heptane and Naphtha solvents. Keep from heat, sparks and flame. Vapors may ignite explosively. DO NOT smoke. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Avoid contact with skin, eyes and clothing. DO NOT breathe vapors. KEEP OUT OF REACH OF CHILDREN. Warning! This product contains materials listed by the state of California as known to cause cancer. FIRST AID: Skin contact, wash off quickly with plenty of water, then soap and water. If in eyes, flush thoroughly with plenty of clean water for at least 15 minutes. Seek immediate medical attention. If swallowed, seek immediate medical attention.

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.

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TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
Color:	Tan	Application Temperature:	Apply and cure between 1°F (-17°C) and 100°F (38°C)
Appearance:	Thick paste	Open time:	15 minutes
Base:	Synthetic Rubber and Resins		
Specific Gravity:	1.29	<u>Cure Time:</u>	24 hours Note: Cure time is dependent upon application conditions such as, temperature, humidity and
Viscosity, Brookfield:	600 mPas		amount of adhesive applied.
Flash Point:	2°F (-16.67°C)	Odor:	Solvent (Apply and cure in a well ventilated area).
VOC Content:	< 140 g/L (7% by weight)		
<u>Shelf Life:</u>	18 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 cartridge)	DDD = Day of manufacture based on 365 days in a year		
ournugo)	For example: 09061 = 61 st day of 2009 = March 2, 2009		
	= IVIAI (11 2, 2009		

Typical Cured Performance Properties

<u>Color:</u>	Tan	
Cured Form:	Non-Flammable, Rubbery solid	
Service Temperature:	20°F (-6°C) to 140°F (60°C)	
Water Resistant:	Yes	
<u>Shear Strength:</u> 24 hours 120 hours	Birch Wood to Birch Wood: 38.1 Kg / cm ² 48.7 Kg / cm ²	
Specifications:	• Meets or exceeds ASTM C 557	