



TECHNICAL DATA SHEET



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DESCRIPTION

OSI® GreenSeries™ Sub-Floor & Deck Adhesive is a high performance, non-flammable, environmentally friendly construction adhesive developed for Glued Floor Systems and other general construction needs, interior or exterior. This product's unique formulation offers Green Builders a high performance, low gassing, latex based construction adhesive without sacrificing strength and performance. Engineered for use with most building materials, this adhesive offers fast strength development with excellent gap filling abilities that aids in distributing stress over the entire work area. OSI® GreenSeries™ Sub-Floor & Deck Adhesive reduces nail schedules and allows for extended joist spans and the use of lower stress grade lumber where local building codes allow.

RECOMMENDED USES:

- Primarily used for glued floor projects involving sub-floor, tongue-and-groove flooring and deck construction.
- Works well for general construction needs such as installing all types of paneling (wood or pre-decorated), polystyrene and polyurethane foam panels, trim moldings and various wall tiles.
- Offers excellent adhesion to all types of wood and wood products, engineered lumber, OSB, plywood, ceramic tiles, fiberglass and most other common building materials.
- Ideal for use in recreational and prefab manufacturing.

NOT RECOMMENDED FOR:

- Underwater applications or permanent water immersion
- Applications requiring temperature resistance greater than 71°C (160°F)
- Exterior applications where rain is expected within 24 hours
- Use on mirrors and metals that will corrode
- Bonding two non-porous surfaces
- Polyethylene, polypropylene, Nylon™ or Teflon™
- Cement Board (Durock™)

FEATURES & BENEFITS:

Feature	Benefits
Ultra low VOC content.....	GREENGUARD® approved and meets LEED® requirements
Water-based adhesive.....	Non-flammable, environmentally friendly, non-toxic
Bonds to most building materials.....	Provides a strong, durable bond to multiple surfaces; Bonds well to wet, frozen and treated lumber
Gap filling.....	Will bridge minor gaps when bonding irregular surfaces; Helps reduce squeaks and sound transmission
Easy cleanup with water (uncured adhesive).....	Eliminates the use of harsh cleaning chemicals
Low odor.....	Great for indoor projects – no strong solvent odor



Item #	Package	Size
1020004	Paper Cartridge	28 fl. oz. (825 mL)



COVERAGE

For a 28 fl. oz. (825 mL) cartridge:

A ¼" (6 mm) bead extrudes approximately 86 ft. (26 m).

A 3/8" (9.5 mm) bead extrudes approximately 38 ft. (12 m).

DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun and tool to puncture inner seal of cartridge.

Safety Precautions:

Wear gloves.

Preparation:

The temperature of the adhesive, 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, snow, ice, standing water or other contaminants. To increase adhesion, sand glossy surfaces to a dull finish. Pre-fit all materials prior to applying product. Cut off tip of cartridge at a 45° angle to desired bead size. Puncture inside seal of cartridge.

Application:

General Construction Use:

Using a caulking gun, apply adhesive to one of the surfaces to be bonded. Press materials firmly together. Repositioning time is approximately 15 minutes. If work is delayed, remove excess adhesive and reapply.

Sub-Floor and Decking Installation:

Apply continuous beads (1/4" to 3/8") of adhesive to all floor joists. For tongue-and-groove panels, apply ¼" (6 mm) beads to groove avoiding excess "squeeze out." Position panels allowing a 3 mm (1/8") gap for expansion at butt joints. Nail within 15 minutes after adhesive application. Use proper nailing schedule as designated by APA Adhesive Nail-On Schedule.

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) on-center. 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.

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.

STORAGE AND DISPOSAL

DAMAGED BY FREEZING. Store in a cool, dry location at room temperature. 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. Avoid eye contact.
Do not take internally. Use with adequate ventilation.
KEEP OUT OF REACH OF CHILDREN.

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.

TECHNICAL DATA

Typical Uncured Physical Properties	Typical Application Properties
<u>Color:</u> Off-White	<u>Application Temperature:</u> 40°F (4°C) to 100°F (38°C)
<u>Appearance:</u> Thick paste	<u>Repositioning Time:</u> 15 minutes @ 70°F, 50% Relative Humidity
<u>Base:</u> Co-polymer Latex	<u>Dry Time:</u> 48 hours
<u>Odor:</u> Mild acrylic odour	Dry time depends upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Specific Gravity:</u> 1.12	
<u>Viscosity:</u> Approx. 250,000 cps	
<u>Solids Content:</u> 70% by weight	
<u>VOC Content:</u> < 0.1% by weight (< 3 g/L)	
<u>Shelf Life:</u> 18 months from date of manufacture (unopened)	
<u>Lot Code Explanation:</u> YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year (Lot code stamped on bottom plunger of cartridge.) For example: 09061 = 61 st day of 2009 = March 2, 2009	

Typical Cured Performance Properties							
<u>Color:</u>	Off-White						
<u>Cured Form:</u>	Non-flammable solid						
<u>Service Temperature:</u>	-12°C (10°F) to 71°C (160°F)						
<u>Water Resistance:</u>	Yes Do not use outdoors if rain is expected within 24 hours.						
<u>Compression Shear Strength (AFG-01):</u>	<table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">Wet Lumber:</td> <td>200 psi</td> </tr> <tr> <td>Dry Lumber:</td> <td>233 psi</td> </tr> <tr> <td>Frozen Lumber:</td> <td>133 psi</td> </tr> </table>	Wet Lumber:	200 psi	Dry Lumber:	233 psi	Frozen Lumber:	133 psi
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Dry Lumber:	233 psi						
Frozen Lumber:	133 psi						
<u>Specifications:</u>	<ul style="list-style-type: none"> ▪ GreenGuard® certified ▪ Qualifies for LEED® points ▪ Exceeds American Plywood Association Specifications, AFG-01 ▪ Meets ASTM D 3498 ▪ Conforms to HUD-FHA Application per UMB 60a ▪ Complies to the following VOC regulations: <ul style="list-style-type: none"> ▪ SCAQMD Rule 1168 VOC ▪ CARB ▪ BAAQMD 						