

# TECHNICAL DATA SHEET



## Subfloor Adhesive

**Handi-Stick® Subfloor Adhesive** is a unique UL Classified polyurethane one-component adhesive that is specially designed for use as a subfloor adhesive to bond plywood, particle board, OSB and other wood floor sheathing. The superior adhesive characteristics help to reduce nail pops, eliminate floor squeaks and will also insulate to reduce sound transmission and energy loss. It is designed within the international guidelines for protection of the ozone layer, and with respect to the Montreal Protocol, 1987, and other environmental guidelines, utilizing a non-flammable, non-ozone depleting blowing agent to assist in the safety of the end user and the environment.

### Application Areas

Handi-Stick Subfloor Adhesive is tested and conforms to ASTM D-3498 subfloor adhesive test standard, as well as the requirements specified in HUD use of materials bulletin UM60a. This standard has replaced the previous subfloor adhesive standard AFG01, which is no longer maintained or updated by the American Plywood Association (APA). The product is suitable for many construction adhesive applications, as it will provide excellent bonds to concrete, particle board, steel, formica, metals, polystyrene, timber, fiberglass and most other common building materials.

The dispensing units are professional urethane adhesive application tools which provide ease of application and are specifically designed for dispensing Handi-Stick Subfloor Adhesive.

### Properties

Handi-Stick Subfloor Adhesive contains no VOCs, is non-ozone depleting and has no solvents to harm polystyrene board.

Handi-Stick Subfloor Adhesive dispenses as a frothy bead texture, which slowly collapses after dispensing to increase in viscosity and bond strength. The slight expansion as the product is curing, after attachment of the substrates, serves to fill in small gaps caused by irregular or uneven surfaces.

Handi-Stick Subfloor Adhesive dries tack-free in

15-25 minutes, depending on moisture and temperature conditions, which allows for an 'open time' in excess of the required 10 minutes.

Optimal application temperature of the chemical is between 65°F (18°C) and 100°F (38°C) and may be used between 40°F (4°C) and 115°F (46°C). In colder temperatures, it is recommended to keep the cans stored at 65-75°F (18-24°C) until ready to use, in order to maintain an acceptable flow rate (See "Preparation For use").

Cured adhesive is chemically inert and non-reactive, as well as resistant to moisture, heat and cold, 0°F to +200°F (-18°C to +93°C), and to aging. Long-term exposure to UV rays (i.e. sunlight) will cause a gradual discoloration unless painted, covered or coated.

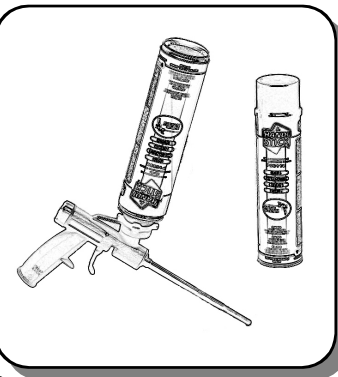
### Preparation For Use

Read all applicable labels and operating instructions for dispensing unit and product application prior to use. Proper chemical temperature is important in order to maintain adequate flow and performance characteristics. As with other chemical adhesive products, colder temperatures will increase the liquid viscosity, thus reducing the flow rate. DO NOT heat cans artificially by means of localized radiators, hot plates, flame or other heat sources, as this may cause dangerous pressure build-up inside the container. For best results, keep containers stored at 65-75°F (18-24°C) until ready to use.

Screw the can onto the gun coupling, with valve upright, until it will go on further. Do not overtighten. Once attached, grip can and gun with both hands and shake well (15-20 times). Immediately pull the dispensing gun trigger to fill the gun with polyurethane adhesive. Adjust the large metering screw to the required extrusion rate/bead size. Substrate must be clean, firm, free of loose particles and free of dust, grease, mold release agents. Protect or remove surrounding finished surfaces to avoid any mess from overspray.

### Application/Use

After following instructions, Handi-Stick Subfloor Adhesive is ready to use. Dispense a uniform 3/8-1/2" (9-12mm) bead to the center of all floor joists. Where panels butt together, apply two beads side by side or one 1/2" (12mm) zig-zag pattern. Press subfloor decking into place and complete nailing/screwing of each subfloor decking. For best results, allow adhesive to flatten for 5-10 minutes before attaching subfloor decking, then minimize gaps between substrates immediately by securely fastening to ensure a permanent bond.



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**Fomo Products, Inc.**  
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## Technical Data

<b>APPEARANCE</b>	Off white colored; frothy bead, slowly flattens during cure.
<b>SHEAR STRENGTH</b> ASTM D-3498 (w/ Douglas Fir)	
<b>Dry Lumber</b>	484 lbs. (220 kg)
<b>Wet Lumber</b>	424 lbs. (195 kg)
<b>Frozen Lumber</b>	349 lbs. (158 kg)
<b>Gap Fill</b>	190 lbs. (86 kg)
<b>MOISTURE RESISTANCE</b> ASTM D-3498	346 lbs. (157 kg)
<b>AGING / OXIDATION</b> ASTM D-3498	Pass
<b>SHELF LIFE</b>	12 months from mfg. date
<b>TACK-FREE TIME</b> 70°F (21°C), 40% RH	Approx. 20 min.
<b>CURE TIME</b> (MIN. BOND TIME)	2 hours
<b>FULL BOND TIME</b>	7 days

## Approvals / Standards

Handi-Stick Subfloor Adhesive conforms to or exceeds the following Classifications, Codes and Standards:

HUD UM60a

CA 25-4

ASTM D-3498

ASTM E-72

ASTM E-84 (8.3%)

UL Classified - File # R18615

Flame Spread 5

Smoke Developed 0

ODP (Ozone Depletion Potential): Contains non-ozone depleting, non-flammable HFC propellant.

VOC Content: Contains no VOC's.

NFPA 30B Classification: Level 1 Aerosol

## Theoretical Yield\*

Product	Bead Size		
	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)
<b>24 oz (680g)</b>	3500 ft	1560 ft	880 ft
P10130	(1067m)	(476m)	(268m)

\*Yields are based on theoretical calculations, for comparison purposes, and will vary depending on ambient conditions and particular application.

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Handi-Stick Subfloor Adhesive application can be interrupted when needed as outlined in the instructions, and gun will be ready for immediate use, as long as it remains attached to a pressurized container. Remove fresh overspray with solvent such as acetone. The multi-purpose Handi-Foam Polyurethane Cleaner (P10083) product is also designed to be used for cleaning the dispensing gun internally for long-term storage and application interruption. Cured adhesive can only be removed mechanically.

**Important Note:** Use only in well ventilated areas. Wear impervious gloves (i.e. nitrile), eye protection, and protective clothing when using. Read all instructions and safety

information (MSDS) prior to use of any product. The product contains no formaldehyde. Cured foam is non-toxic. **KEEP OUT OF REACH OF CHILDREN.**

### Product Storage

Store in cool, dry area. Do not expose to open flame or temperatures above 120°F (49°C). Excessive heat can cause premature aging of components resulting in a shorter shelf life. Handi-Stick Subfloor Adhesive is reusable by following product instructions. Always store gun with a pressurized container attached to assure correct function of dispensing unit.

**Always read all operating, application and safety instructions before using any products from Fomo Products, Inc.** Use in conformance with all local, state and federal regulations and safety requirements. Failure to strictly adhere to any recommended procedures and reasonable safety precautions shall release Fomo Products of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call Fomo Products, Inc. (330) 753-4585.

**NOTE:** Physical properties shown are typical and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions and may vary upon use, temperature and ambient conditions. Right to change physical properties as a result of technical progress is reserved. This information supersedes all previously published data. Yields shown are based on theoretical calculations and will vary depending on ambient conditions and particular application. Read all product directions and safety information before use. Consult local building codes for specific requirements regarding the use of cellular plastics or urethane products in construction.

**WARNINGS:** Follow safety precautions and wear protective equipment as recommended. Consult Material Safety Data Sheet (MSDS) for specific information. Use only with adequate ventilation or certified respiratory protection. NIOSH approved positive pressure supplied air respirator is recommended if exposure guidelines may be exceeded. Contents may be very sticky and irritating to skin and eyes, therefore wear safety glasses, impervious gloves (i.e. nitrile), and adequate clothing when operating. If liquid chemical comes in contact with skin, first wipe thoroughly with dry cloth, then rinse affected area with water. Wash with soap and water afterwards, and apply hand lotion if desired. If liquid comes in contact with eyes, immediately flush with large volume of clean water for at least 15 minutes and get medical help at once. If liquid is swallowed, get immediate medical attention. Products manufactured or produced from these chemicals are organic and, therefore, combustible. Each user of any product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage. **KEEP OUT OF REACH OF CHILDREN.**

**LIMITED WARRANTY:** The Manufacturer warrants only that the product shall meet its specifications: THIS WARRANTY IS IN LIEU OF ALL WRITTEN OR UNWRITTEN, EXPRESSED OR IMPLIED WARRANTIES AND THE MANUFACTURER EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. The buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the replacement of the material. Failure to strictly adhere to any recommended procedures shall release The Manufacturer of all liability with respect to the materials or the use thereof. User of this product must determine suitability for any particular purpose, including, but not limited to, structural requirements, performance specifications and application requirements prior to installation and after product is applied.



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