

TECHNICAL DATA SHEET



HANDI-STICK GENERAL USE ADHESIVE

Handi-Stick® General Use Adhesive is a multiple purpose UL classified one-component polyurethane adhesive 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 HFC blowing agent to assist the safety of the end user. The unique product properties, improved performance and professional application systems gives Handi-Stick General Use Adhesive many advantages over the use of traditional fastening methods such as mortar, nails or screws.

Properties

Handi-Stick General Use Adhesive dispenses as a frothy bead texture, which dries tack-free in 4-8 minutes, depending on moisture and temperature conditions. After placement of the substrates, expansion of the curing product serves to fill in small gaps and maximize adhesive coverage.

Handi-Stick General Use Adhesive contains no VOCs, is non-ozone depleting and non-flammable, and contains no solvents that might attack asphalt, styrene or rubber membranes. Cured PU foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylene or other plastic (i.e. PEX, CPVC). It is approved for use around wires, plumbing penetrations, etc., and contains no formaldehyde.

Optimum application temperature is between 65°F (18°C) and 80°F (27°C) and may be used between 40°F (4°C) and 115°F (46°C). Cured adhesive is resistant to heat and cold, -200°F to +200°F (-129°C to +93°C), and to aging, but not UV rays (i.e. sunlight) unless painted, covered or coated. Cured PU foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylene or other plastic. It is approved for use around wires, plumbing penetrations, etc., and contains no formaldehyde.

Preparation For Use

Read all applicable instructions for the dispensing gun and systems, which are included with each product, prior to any use.

Substrate must be clean, firm, free of loose particles and free of dust, grease and mold release agents. Protect surfaces not to be adhered.

Application / Use

Note: For proper adhesion, do not allow more than 5 minutes to elapse between dispensing adhesive and attaching sub-

strate. Longer than five minutes 'open time' will adversely affect adhesion.

After following instructions for set-up, the dispensing gun is ready to use. The adhesive flow can be metered by adjusting the metering screw located in the back of the dispensing unit, and by pulling the gun trigger for the desired extrusion rate. Application can be interrupted when needed as outlined in the instructions and the gun will be ready for immediate use, as long as it remains attached to a pressurized container. Empty container must be replaced immediately with new pre-shaken container.



Remove fresh adhesive overspray with Handi-Cleaner Polyurethane Cleaner (P10083), or solvents such as acetone. Cured adhesive can only be removed mechanically. The multi-purpose Handi-Cleaner Polyurethane Cleaner product is also designed to be used for cleaning the dispensing gun internally for long-term storage and application interruption.

Important Note: Use only in well ventilated areas. Wear impervious gloves, 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 component resulting in a shorter shelf life. Handi-Stick is reusable by following product instructions. Always store dispensing gun with a pressurized container attached to assure correct functioning.

Fomo Products, Inc.
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Technical Data

CORE DENSITY	1.0 lbs/ft ³ (16 kg/m ³)
COMPRESSIVE STRENGTH ASTM D-1621 Parallel at 10%	7.8 psi (53.8 k Pa)
TENSILE STRENGTH	19.95 psi (137.6 k Pa) parallel to rise
DIMENSIONAL STABILITY	+0.89% volume change @ 70°F (21°C), 2 weeks
CLOSED CELL CONTENT ASTM D-2856	>70%
TACK-FREE TIME 70°F (21°C), 60% RH	Approx. 5 min.
CURE TIME	1-2 hours
FULL BOND TIME	24 hours

Approvals / Standards

Handi-Stick General Use Adhesive is tested and complies with the following Classifications, Codes and Standards:

UL Classified - File #R18615
ASTM E-84 (8.3%)
Flame Spread 5
Smoke Development 0

PA 101 Static Uplift and PA 108 Wind Tunnel

Long Term aging stability according to ASTM D-1623 and ASTM D-2126C

ODP (Ozone Depletion Potential): Contains non-ozone depleting, non-flammable HFC propellant. Consult MSDS for reporting requirements.

VOC Content: Contains no VOCs.

Theoretical Yield*

Product	Bead Size			VOLUME
	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)	
20 oz. Gun Foam (567 g) P10178	3289 ft. (1002 m)	1462 ft. (446 m)	834 ft. (254 m)	1.14 ft ³ (32.3 liters)

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

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. 1 330.753.4585 or 1 800.321.5585.

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. Prolong inhalation exposure may cause respiratory irritation/sensitization and/or reduce pulmonary function in susceptible individuals. Onset may be delayed. Pre-existing respiratory conditions may be aggravated. 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 protective eyewear, impervious gloves, and suitable work 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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