

# TECHNICAL DATA SHEET



## Low Density Two-Component Polyurethane Spray Foam

**Handi-Foam® Low Density Two-Component Polyurethane Foam** is a multiple purpose two-component polyurethane froth foam 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. The pre-pressurized, two-component froth foam systems are dispensed through the state-of-the-art Handi-Gun® two-component dispensing unit, providing unsurpassed quality and flexibility in end-use performance.

### Application Areas

Spray foam onto any clean, dry surface in any direction to insulate, fill and seal various size voids, deaden sound or reduce vibration. It is specifically designed to spray onto flat or irregular surfaces and to fill large cavities. Standard free-rise density for Handi-Foam Low Density Spray Foam is 0.75 +/- 0.25 lbs/ft<sup>3</sup> (see page 2 for complete technical data and system availability).

### Properties

Two-component froth foam systems will expand immediately upon chemical reaction of A component and B component to a final volume that is 6 to 10 times the dispensed volume, in typical applications, depending on various factors such as cavity size and ambient conditions. The foam will cure to a semi-rigid open cell foam upon reaction of the A component ( a polymeric isocyanate) and B component (a polyol blend containing certain additives).

Handi-Foam Low Density Spray Foam fully expands and dries tack-free within 30-45 seconds, and fully cures within 1 hour.

Handi-Foam Low Density Spray Foam adheres to almost all building materials with the exception of surfaces such as polyethylene, Teflon®, silicone, oils and greases, mold release agents and similar materials.

Optimum application temperature is 75°F (24°C) but may be sprayed onto colder or warmer substrates, with slight effects on the foam characteristics. Cured foam is resistant to heat and cold, -200 to +200°F (-129 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 (i.e. PEX) or other plastic. It is approved for use around wires, plumbing penetrations, etc., and contains no formaldehyde.

Handi-Foam Low Density Spray Foam systems require no outside mechanical or electrical power source and are available in refillable and non-refillable sizes to meet specific job applications requirements. When sprayed, the foam will create a seamless, continuous seal to insulate and protect against dust, air infiltration and pests.

### Preparation For Use

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

Shake kits well *before* using (applicable to non-refillable systems).

### Application / Use

After following instructions for set-up, systems are ready to use. Attach appropriate hose to tanks A and B if needed. Open tank valves as directed. Materials are dispensed through the hoses and mixed in the disposable nozzle.

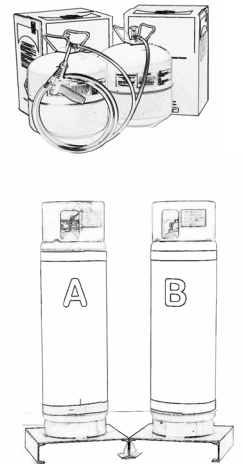
With a nozzle attached to the two-component froth foam dispensing unit, dispense foam by squeezing the trigger of the unit. To interrupt or stop the foaming process, release the trigger. Once foaming process has stopped, the dispensing unit must be reactivated within 30 seconds or a new nozzle **must** be installed. Fresh foam may be applied in several stages to reduce overfilling of void or damage to non-rigid, confined cavities. Cured foam can only be removed mechanically.

**Important Note:** Use only in well-ventilated area or with certified respiratory protection. Wear impervious gloves, protective eye-wear and suitable work clothes 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-Foam is reusable by following product instructions. For optimum results, chemical temperature must be between 75-85°F (24-29°C). The Magnum Dispensing Unit provides chemical temperature control through the use of insulated and heated hoses. Therefore, the recommended chemical temperatures when using the Mangum Dispensing Unit is 70-80°F (21-26°C).

**Note:** During colder months it may take up to a week or more to warm the chemicals to optimum temperature. Construction of a temperature controlled "hot box" is recommended for all applications in order to store the refill systems at a consistent, controlled temperature prior to and during use.



**Fomo Products, Inc.**  
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