

TECHNICAL DATA SHEET

One-Component Polyurethane Gun Foam Sealant - DURA24G

DuraFoam One-Component Foam Sealant

is a multiple purpose, UL classified, polyurethane 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.

DuraFoam **Gun Foam** is designed to be dispensed through any professional one-component dispensing unit. The product forms a superior air seal which prevents heat loss, noticeable drafts and is ideal for a variety of application areas.

Application Areas

Apply DuraFoam onto any clean surface to fill and seal around windows and door frame joints, beneath base plates, mud sills, top plate penetrations, corner joints, T-joints, exterior cracks, around utility panels, pipes and duct penetrations. It is specifically designed to be dispensed as a bead for filling cracks, crevices and smaller cavities on flat or irregular surfaces.

Properties

DuraFoam is a pressurized, portable, one-component foam system. Applied in a bead form, it cures slowly to semi-rigid closed cell foam upon reaction with moisture, such as ambient humidity. A desirable bead growth of 200-300% during the first hour of cure should be expected. Expansion is dependent on ambient conditions. This product forms a superior air seal that prevents heat loss and noticeable drafts.

DuraFoam cures tack-free within 5 minutes depending on moisture and temperature conditions. A one inch bead at room conditions is cuttable within 1 hour and is fully cured in 12-24 hours.

DuraFoam adheres to almost all building materials with the exception of surfaces such as polyethylene, Teflon[®], silicone, oils and greases, mold release agents, and similar material. Optimum

chemical temperature is between 65°F and 80°F (18°C to 27°C), but may be applied in cold or hot ambient conditions, as long as the working chemical temperature range is maintained. Cured foam is dimensionally stable, and known to be resistant to temperatures ranging between -200°F to +240°F (-129°C to + 115°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.

DuraFoam systems require no outside mechanical or electrical power source. When applied, the foam will seal, bond and protect against dust, air infiltration, pests and more.

Preparation For Use

Substrate must be clean, firm, free of loose particles and free of dust, grease and mold release agents. Surfaces not to be foamed must be protected. Shake cans well *before* using.

For best results in cavities larger than 3 inches in diameter, dampen substrate to supplement atmospheric humidity in affecting consistent cure throughout applied foam.

Application / Use

After following instructions for set-up, cans are ready to use. Foam application can be interrupted, when needed, as outlined in the instructions. DuraFoam is especially useful for irregular voids and non linear cracks and crevices, as foam will expand slowly up to 200% during the curing process. Overfilling cavities can result in a prolonged curing process and insufficient air or substrate moisture during cure may cause delayed expansion.

Remove fresh foam over spray with **DuraFoam Cleaner** or solvents such as

acetone. Cured foam can only be removed mechanically.

Special Handling

Contents are under pressure. Do not puncture or incinerate. Do not place in hot water or near radiators, stoves or other sources of heat.

Important Note:

Use only in well-ventilated areas. Wear impervious gloves, protective eyewear, 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 shorter shelf life. DuraFoam is reusable by following product instructions.

Technical Data

CORE DENSITY - NOMINAL	1.44 lbs./ft. ³ (23 kg./m. ³)
R-VALUE ASTM C518	4-5 per inch, typically
RSI (METRIC R-VALUE)	(0.7-0.8/inch, 0.005-0.006/mm)
AIR BARRIER PROPERTIES ASTM E-283 @6.24 psf (300 Pa) @1.57 psf (75 Pa), extrapolated	<0.01 cfm/ft ² (0.05 L/s/m ²) <0.0025 cfm/ft ² (0.0125 L/s/m ²)
TACK-FREE TIME 70°F (21°C), 40% RH	Approx. 5 min.
CURE TIME	12-24 hours
CUTTABLE (1" BEAD AT ROOM CONDITIONS)	<1 hour

Theoretical Yield*

Product	Bead Size			Volume
	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)	
24 oz. (680 g) Gun Foam	3992 ft. (1217 m)	1774 ft. (541 m)	998 ft. (304 m)	1.36 ft ³ (39 liters)

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

Approvals / Standards

UL Classified - File # R13919 Caulking and Sealants
ASTM E-84 (8.3%)
Flame Spread 5
Smoke Developed 10

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

VOC Content: Contains no VOC's.

NFPA 30B Classification: Level 1 Aerosol

Always read all operating, application and safety instructions before using any products.

Use in conformance with all local, provincial and federal regulations and safety requirements. Failure to strictly adhere to any recommended procedures and reasonable safety precautions shall release Manufacturer of all liability with respect to the materials or the use thereof.

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 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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