

DuPont™ Enerfoam™ Professional Foam Sealant

One-Component, Minimal-Expanding, Flexible Foam Sealant

FEATURES/BENEFITS

Description

DuPont™ Enerfoam™ Professional Foam Sealant* is a one-component, minimal-expanding, flexible polyurethane foam used for adhering insulated concrete forms, architectural foam and drywall, and sealing cracks and voids such as pipe penetrations. The foam expands only enough to generate an effective seal, retaining elasticity as the structure expands and compresses.

Enerfoam™ is designed to form a durable, airtight, water resistant bond to common building substrates such as wood, brick, concrete, foam board and most plastics. Its foam skin repels and deflects water, which can help reduce the potential for moisture damage to wood substrates.

In the U.S., Enerfoam™ is also recognized as a fireblock, which means it resists the free passage of flames to other areas of the building through concealed spaces.

Ease of Use

Enerfoam™ is easy to apply, with a number of features to improve functionality:

- Installs in minutes (tack-free in less than 20 minutes, trims within 30 minutes)**
- Gun-applied; straw is reusable for up to one month
- Designed to form a durable, airtight, water-resistant bond to common building substrates (such as wood, brick, concrete, foam board and most plastics)
- Expands to take the shape of cracks and voids, forming an airtight barrier
- Reduces drywall nail pops and pathways where insects can enter
- Retains elasticity as the structure expands and compresses

Available Sizes

Enerfoam™ is available in 24 oz. and 30 oz. gun- and reusable straw-applied versions. See Table 1 for estimated yields. Contact your DuPont sales representative with questions.

TABLE 1: Estimated Yields⁽¹⁾ for Enerfoam™ Professional Foam Sealant

Can Size, oz	Delivery	Yield, Linear Feet/Meters	Estimated Caulk Equivalency, Quart Tubes
24 (680g)	Reusable Straw	775 (236)	18
24 (680g)	Gun	970 (296)	22
30 (850g)	Gun	1450 (442)	33

¹Estimated yield under ideal conditions, 3/8" bead.

PROPERTIES

Enerfoam™ exhibits physical properties as indicated in Table 1 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

* Enerfoam™ Professional Foam Sealant is a former product of The Dow Chemical Company.

** Dependent upon temperature, relative humidity and size of foam bead

TABLE 2: Typical Physical Properties of Enerfoam™ Professional Foam Sealant

Property and Test Method	Value
Flexural Strength, ASTM C203, parallel to rise, psi, min.	8.8
Apparent Initial k-factor (Thermal Resistance) per inch, ASTM C518 @ 75°F mean temp., Btu·in/ft ² ·hr·°F, min.	0.26
Compressive Strength, ASTM D1621, parallel to rise, psi	9.3
Core Density, ASTM D1622, pcf	1.01
Water Absorption, ASTM D2842, % per volume	6.4
Dimensional Stability, ASTM D2126, % volume change	
100°F/100%RH@2wks	14.31
-40°F/ambRH@2wks	0.41
Closed Cell Content, ASTM D2856, %	80
Tensile Strength, ASTM D1623	
Parallel to rise, psi	14.4

¹ Gun delivery; not to be considered sales specifications

TESTING

Applicable Standards

DuPont™ Enerfoam™ Professional Foam Sealant tested to the following standard:

- **ASTM E84** – Standard Test Method for Surface Burning Characteristics of Building Materials
- **ASTM E814** – Standard Test Method for Fire Tests of Through-Penetration Fire Stops

Notice

Enerfoam™ complies with the following code:

- Underwriters Laboratories, Inc. (UL) Classification, Classified as a sealant; see UL R13655
- ICC-ES ESR-1961 (US)
- CCMC 13074-R (CAN)

Contact your DuPont sales representative or local authorities for state/provincial and local building code requirements and related acceptance.

Packaging

Comes with a PRO Series foam dispensing gun, providing clean and precise dispensing with professional results. A spring-loaded valve prevents the foam from curing and blocking the valve, allowing the can to be reused up to one month after initial use.

HANDLING

WARNING: For Professional Use Only – Read and follow the entire Handling section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont products. Follow all applicable federal, state, local and employer regulations.

Precautionary Statements

- Surface where applied should be free of dust, dirt, oil or other loose materials that may impair adhesion. Damp surfaces will not impair the bond.
- **Enerfoam™** is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Wear long sleeves, gloves, and goggles or safety glasses. Cured foam must be mechanically removed or allowed to wear off in time.
- Cured **Enerfoam™** foam is combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F. **Enerfoam™** foam should not be used around heaters, furnaces, fireplaces, recessed lighting fixtures or other applications where the foam may come in contact with heat-conducting surfaces.
- Do not inject **Enerfoam™** foam into large or confined cavities such as behind holes in drywall or under tub wall surrounds where flammable vapors may collect. Foam must be exposed to atmospheric moisture to thoroughly cure.
- **Enerfoam™** contains isocyanate and a flammable blowing agent. Vapor may travel to other rooms. Ensure adequate ventilation. Shut off all pilot lights and extinguish open flames; eliminate all sources of ignition before use. Do not smoke or use lighters or matches while dispensing foam.
- Do not breathe vapor or mist. Use in well-ventilated areas or wear proper respiratory protection. Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact

Personal Protective Equipment (PPE)

Personal protective equipment (PPE) used during the handling of DuPont™ Enerfoam™ Professional Foam Sealant must at a minimum include long sleeves, gloves and goggles or safety glasses.

Shelf Life and Storage

Enerfoam™ has a shelf life of one year when stored at 75°F. Contents of the can are under pressure. Do not place can in hot water. Do not puncture, incinerate or store at temperatures above 120°F. Can may burst if left in areas susceptible to high temperatures, such as motor vehicles or near radiators, stoves or other sources of heat.

Disposal

Dispose of any residual DuPont product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.



**For more information visit us at
building.dupont.com/enerfoam
or call 1-866-583-2583**

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CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.

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