

Work Zone / Gap Stop All Purpose Foam Sealant

TECHNICAL DATA SHEET

1. PRODUCT NAME

Work Zone / Gap Stop All Purpose
Foam Sealant

2. MANUFACTURER

ICB Products,
75 Chambers Drive, Unit 9,
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3. PRODUCT DESCRIPTION

Work Zone / Gap Stop All Purpose Foam Sealant is a high yield, triple expanding foam that can be used for filling, sealing, and insulating. It is an aerosol driven one component, moisture curing polyurethane material, which cures to a closed cell, semi-rigid foam with high cellularity for excellent insulation against heating and cooling loss, and exhibits enough elongation and flexibility to ensure an excellent and permanent seal. Its adhesive properties are

excellent to ensure that it will stay in place, and not release from the surfaces to be sealed. The cured foam blocks out drafts, dirt, water, and is insoluble, rot proof, vermin resistant, non-toxic, and will not absorb water. The can dispensing valve has been specially designed to allow accurate control from maximum flow for filling, to minimum flow for caulking type beads.

Basic Use: Recommended to fill around vents, pipe openings, cracks or gaps in masonry, foundations, around (not in) electrical boxes, air conditioners, sill plates, - wherever a positive, insulating seal is required. Also for use on surfaces of hatches, access doors and partitions etc., to insulate against cold (or heat), sound, or vibration (drumming). Also makes a great floatation aid for boats, docks etc., when encased in fibreglass, drums, or other containers. For use around windows, doors, siding, and flashing, Work Zone / Gap Stop Low Expansion Foam is recommended, however Work Zone / Gap Stop All Purpose Foam may be used if care is taken to prevent bending or bowing of the frames and surfaces involved.

Composition and Materials: Work Zone / Gap Stop All Purpose Foam is made of polyurethane prepolymers, and aerosol propellants. It also contains fire retardant to reduce the rate of burning.

Colour: tan. May be painted.

Sizes: 340 gram, 566 gram, and 820 gram cans.

Grade: Professional grade.

Limitations: Cured foam must not be permanently exposed to ultraviolet light, as it would start to deteriorate in 2-3 days. If the foam is going to be exposed, it should be painted or covered for protection against ultraviolet radiation deterioration. Cured foam should not be exposed to

temperatures above 115°C (240°F). Excessive temperature will cause deterioration of the foam. Aerosol propellants are affected by cold temperatures, and will reduce in pressure as the temperature falls, which may result in insufficient pressure to fully empty the can. To ensure that aerosol pressure is sufficient to empty the can, keep the can warm until ready for use. All polyurethane foams require available moisture from the air for curing, and will change in physical characteristics and curing time in colder temperatures where there may be little or no moisture in the air. Do not apply in totally confined spaces, as the sealant requires atmospheric moisture to cure. For best results, apply at temperatures between 15°C (60°F) and 40°C (100°F). As with all types and brands of polyurethane foam sealants, application below 5°C (40°F) is not recommended. To promote proper curing of foam during colder or very dry periods, moisten surfaces with water before application. Before product application, user should determine suitability of Work Zone / Gap Stop All Purpose Foam for intended use. **Polyurethane foams cannot be used as a fire stop material.**

4. TECHNICAL DATA

Listed data are based on laboratory results and may differ in practical application. All values will vary with humidity, temperature, and foam thickness.

Yield - cured foam

340 gr. - up to 10.2 L (2.7 gal.)

566 gr. - up to 16.9 L (4.5 gal.)

820 gr. - up to 24.5 L (6.5 gal.)

Expansion Rate (increase in volume due to expansion) - 180%-200%

continued ...



4. TECHNICAL DATA - Cont.

Listed data are based on laboratory results and may differ in practical application. All values will vary with humidity, temperature, and foam thickness.

Density - 1.75 +/-0.25 Lb./ft³

Cure time @20°C and 40% R.H.

Tack Free - less than 30 minutes

Ready to cut - less than 4 hours

Thermal Resistance - R4.5-5.5 / in.

Cellularity - 80% closed cell
(see note 1 below)

Water Absorption - 0.4% Vol.

UL Classified: ASTM-84

Flame spread - 10

Smoke Density - 15

Odour - slight

Freeze-thaw stability - stable

Shelf life - 2+ years.

Storage temperature - +5°C to 37°C
(40°F to 100°F)

Note 1 – In cross section, the foam structure is 80% closed cell. In a 1” foam bead, from 25-50 layers of gas pockets (bubbles) are present. By simple math, each successive layer of bubbles will close off 80% more openings, until after ¼”, the foam bead will provide an air barrier which is at least 99.9936% effective, and after ½”, the foam will provide an air barrier which is practically 100% effective. This makes the foam sealant an excellent choice for use in airflow containment, acoustical applications, and as a full block vapour barrier.

5. INSTALLATION

General Preparation: Wear work clothes, gloves, and eye protection. Cover adjacent finished surfaces, finished floors, and carpets. Shake can vigorously before use.

Surface Preparation: Surface should be free of contaminants, dirt, standing water, oil, or solvents. Moistening dry surfaces is recommended for optimum performance.

Filling Area: Hold can upside down during application. Use sparingly, foam expands approximately 3 times. Fill cavities 40% to allow for expansion. Fill very large areas or apertures in layers rather than one

application, and work from bottom to top.

Post Application: Cured foam may be cut, sanded, painted, or coated with plaster or fillers. Exposed foam should be painted or covered to protect from UV light.

Cleanup: Uncured foam may be removed with acetone, paint thinner, or nail polish remover. Dried foam is very difficult to remove, and can only be removed mechanically.

6. PRODUCT SAFETY

CAUTION:

Contains MDI Monomer, Polyurethane Resin & either Propane/Isobutane or HCFC propellant. DRIED FOAM EXPOSED TO TEMPERATURES IN EXCESS OF 115°C (240°F) MAY RELEASE HAZARDOUS DECOMPOSITION PRODUCTS. 340 gram and 566 gram sizes are flammable during dispensing. Shut off all gas pilot lights and other sources of ignition before and during use. DO NOT smoke or use matches/lighters while dispensing foam. Accumulated vapours may cause flash fires or ignite explosively. For all sizes of product, ventilate work area with moving air. Overexposure to vapours may cause dizziness or headache - move to fresh air. Do not puncture, expose to heat or store at temperatures above 49°C (120°F). Wear protective gloves, clothes, and eye protection. Use drop cloths. In case of eye contact, flush eye with water for 15 minutes and get immediate medical attention. If ingested, call a physician. REMOVE WET FOAM IMMEDIATELY FROM SKIN AND CLOTHES WITH ACETONE, PAINT THINNER, OR NAIL POLISH REMOVER. DRIED FOAM IS HARD TO REMOVE FROM SKIN AND CLOTHES. If foam dries on skin, apply generous amounts of petroleum jelly or lanolin, leave on for one hour, wash thoroughly, and repeat process until foam is removed. Do not attempt to remove dried foam with solvents. KEEP OUT OF REACH OF CHILDREN.

7. AVAILABILITY AND COST

Marketed throughout Canada and some foreign countries. Work Zone / Gap Stop All Purpose Foam is sold through building supply, hardware, paint, and specialty distributors. Costs are available from local Work Zone distributors and representatives, or from company corporate offices.

8. WARRANTY

ICB Products warrants that Work Zone / Gap Stop All Purpose Foam is manufactured according to our published standards, and that it is free from defects. ICB Products will provide replacement for, or refund the purchase price of, that portion of material which proves defective. This constitutes the limit of ICB Products' liability and obligation. The company will not be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user must determine suitability of the product for intended use, and user assumes all risk and liability whatsoever in connection therewith.

9. MAINTENANCE

No maintenance is required for properly applied, cured product.

10. TECHNICAL SERVICES

Technical assistance is available from ICB Products corporate offices only. Information and testing results are guidelines only and not intended for preparing specifications.

11. FILING SYSTEMS

- Technical Data Sheet
- Product catalogues, brochures.
- Additional product information is available upon request

12. COPYRIGHT

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