Handi-Foam® Black Sealant is a one-component polyurethane foam (OCF) sealant specifically designed black in color, making it ideal for applications where product appearance may be a factor. Handi-Foam Black Sealant utilizes a (HC) propellant. Refer to the product storage and special handling section of this document for information regarding the use of flammable aerosol propellants. The product is for professional use only.

Handi-Foam Black Sealant is available as a 12oz straw foam, a 24oz and a 29oz gun foam. The gun foam version is designed to be dispensed through any Handi-Tool® dispensing unit. The straw foam versions are designed to be dispensed through a straw adapter (included with each can).

**Application Areas**
Handi-Foam Black Sealant may be used to fill gaps and cracks in pond and waterfall design, landscaping, RV undercarriages, crack and hole repair in trees, as well as to seal gaps and penetrations in the building envelope. Handi-Foam Black Sealant is fish and plant safe.

**Properties**
The pre-pressurized, portable OCF system, applied in a bead form, expands and cures slowly to a semi-rigid, closed cell foam upon reaction with moisture, such as ambient humidity.

Handi-Foam Black Sealant dries tack-free in approximately 5 minutes or less depending on moisture and temperature conditions. The foam fully cures within 24 hours. Expansion of 2-3 times the dispensed bead within the first hour should be expected. It is recommended to fill the cavity only 1/3 of the way full to allow for expansion. Handi-Foam Black Sealant will adhere to itself if more foam need be applied.

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

Optimum chemical temperature is between 65°F and 80°F (18°C - 27°C), but may be applied in cold or hot ambient conditions, as long as the optimal 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).

Handi-Foam Black Sealant is water resistant 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. When cured, polyurethane foam is permanent, non-toxic, chemically inert, non-reactive and stable for an indefinite period of time. Cured foam should be protected against UV rays (i.e. sunlight) by painting or staining to prevent long term discoloration or degradation.

**Application/Use**
After following instructions for set-up, the cans are ready to use. Straw foam option: Attach the straw, shake well, and begin dispensing. The dispensing units can be metered by pulling the dispensing unit trigger for the desired rate, or with the metering screw located in the back. Foam application can be interrupted when needed as outlined in the instructions and the dispensing unit will be ready for immediate re-use, as long as it remains attached to a pressurized container. An empty gun foam container must be replaced with a new container.

Handi-Foam Black Sealant is especially useful for irregular voids and on non-linear cracks and crevices. Filling excessively large cavities can result in a prolonged curing process. Also, insufficient air or substrate moisture during cure may cause delayed expansion.

Remove fresh foam over spray with Handi-Cleaner® (P10083) or solvents such as acetone. Cured foam can only be removed mechanically.

Always refer to the local building codes before application of product.

**Personal Protective Equipment (PPE)**
Use only in well ventilated areas. Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure when using. Read all instructions and safety information prior to use of any product. Consult the product’s (M)SDS (available at www.fomo.com).

**KEEP OUT OF REACH OF CHILDREN**

**Special Handling**
The propellant is extremely flammable during dispensing and cure. Provide sufficient cross-ventilation to remove any buildup of vapors. Keep away from heat, sparks and sources of ignition. Turn off all pilot lights. Vapors may cause flash fire if ignited. Contents are under pressure. Do not puncture, incinerate or store above 120°F (49°C). Do not place in hot water or near radiators, stoves, motor vehicles or other sources of heat. Cured urethane foam produced from these ingredients will support combustion and may present a fire hazard if exposed to a fire or excessive heat 240°F.

**Product Storage**
Store upright in a dry area. Do not expose the product 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 Black Sealant is reusable by following product instructions.

**Disposal**
Do not incinerate containers. Relieve containers of any remaining foam and pressure before discarding. Always wear proper PPE during the disposal process and make sure discarded foam is fully cured. Dispose or recycle empty containers in accordance with all federal, state, provincial, and local regulations.
**Technical Data**

| Core Density—Gunfoam | 1.00 lbs/ft³ (16 kg/m³) |
| Core Density—Strawfoam | 1.1 lbs/ft³ (17.6 kg/m³) |
| K-Factor | 0.222 BTU/ft²•°F |
| R-Value | 4.50 per inch |
| Air Barrier Properties | ASTM E2178 0.00026 cfm/ft² (0.0013 L/s/m²) |
| Full Cures | 12-24 hours |
| Cuttable (1” bead) | <1 hour |
| Compression Strength | ASTM D1621-Parallel 6.58 psi (45.3 kPa) |

**Closed Cell Content**

| Open Cell Content | 80% Closed Cell |

**Fire Rating**

- ASTM E94 Caulking & Sealant Tested at 3/4” bead thickness
  - Flame Spread Index = 25
  - Smoke Developed = 50

- CAN/ULC S102 Caulking & Sealant Tested at 3/4” bead thickness
  - Flame Spread Index = 15
  - Smoke Developed = 25

- NFPA 286
  - Passed
  - Seal openings and cracks in walls without a thermal barrier.

**Theoretical Yield**

<table>
<thead>
<tr>
<th>1/4”</th>
<th>3/8”</th>
<th>1/2”</th>
<th>VOLUME</th>
</tr>
</thead>
<tbody>
<tr>
<td>(6.3 mm)</td>
<td>(9.5 mm)</td>
<td>(12.7 mm)</td>
<td></td>
</tr>
<tr>
<td>12oz (340g)</td>
<td>1996 ft² (606 m²)</td>
<td>887 ft² (270 m²)</td>
<td>499 ft² (152 m²)</td>
</tr>
<tr>
<td>24oz (680g)</td>
<td>1524 ft² (459 m²)</td>
<td>657 ft² (198 m²)</td>
<td>336 ft² (100 m²)</td>
</tr>
<tr>
<td>28oz (820g)</td>
<td>1519 ft² (458 m²)</td>
<td>651 ft² (194 m²)</td>
<td>310 ft² (95 m²)</td>
</tr>
</tbody>
</table>

**Approvals / Standards**

- Handi-Foam® One-Component Black Sealant conforms to the following Classifications, Codes and Standards:
  - NFPA 286 testing allows for the use of Handi-Foam Black without a thermal barrier when the maximum width must not exceed 1 1/2 inches and the nominal foam thickness must not exceed 1 1/2 inches. The maximum area of exposed sealants must not exceed 18 square inches per square foot.
  - VOC Content: 16% or 165 g/L (Calculated Value)
  - NFPA 30B Classification: Level 2 Aerosol
  - UL Classified - File # R13919 Caulking and Sealants ASTM E-84 (12.5%) Flame Spread 25 Smoke Developed 50
  - ULC Classified - File # R13919 Caulking and Sealants CAN/ULC S102 (12.5%) Flame Spread 15 Smoke Developed 25
  - GREENGUARD Certification

**Specifications**

- Made in Norton, Ohio

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**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) at www.fomo.com for specific information. Use only in a well ventilated area or with 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 safety glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure 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, 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.

**LIMITED WARRANTY:** The Manufacturer warrants only that the product shall meet its specifications: THIS WARRANTY IS IN LIEU OF ALL WRITTEN OR UNWRITTEN, EXPRESS 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 use, including, but not limited to, structural requirements, performance specifications and application requirements prior to installation and after product is applied.