

Red Devil

Technical Data Sheet

Fire Block Expanding Polyurethane Foam Sealant – Meets I-Code Requirements Product No. 0915

Description

Fire Block Expanding Polyurethane Foam Sealant is a ready-to-use foam formulated for filling, insulating & sealing gaps, cracks & openings in the interior & exterior of buildings.

Key Features & Benefits

1. Tested according to ASTM E84, E814 (modified), NFPA 286 & meets requirements for fire blocking penetrations
2. Type V residential Fire Block for “non rated” single family construction – ICC-ES report ESR 3302
3. Inhibits passage of fire through residential utility penetrations
4. Excellent sealing against gas and smoke
5. Complies with International Building Code (IBC) & International Residential Code (IRC) fire blocking requirements
6. Orange color for easy inspection identification
7. All Direction Dispensing – more comfortable application

Uses

Use for a wide range of interior & exterior sealing & insulating applications such as basement areas, attic areas & around cables, pipes, vents & duct penetrations. Use to seal concealed penetrations between floors or rooms (electrical, plumbing, HVAC, etc) in residential construction (type V*) to block passage of flame & smoke.

Application Preparation

Shut off all gas pilot lights, electrical igniters, burners and other sources of ignition and heat before and during use, as this product is FLAMMABLE during dispensing. Surface should be clean, dry & free of contaminants for maximum adhesion.

Directions

1. Following label directions, wear protective gloves and protective eyewear.
2. Screw trigger/nozzle assembly to valve.
3. Shake can vigorously for at least one minute before use. Test on a cloth or newspaper first.
4. Holding can upside down, slowly pull trigger until foam flows smoothly. Never activate valve with can right side up, propellant will escape. Fill openings only 50% to allow expansion of foam. Do not overfill.

| <u>Physical/Performance Property</u> | <u>Test Method</u> | <u>Typical Result</u> |
|--|---------------------------|---|
| <i>Closed Cell Content</i> | <i>Test Lab</i> | <i>Up to 60%</i> |
| <i>Color</i> | <i>Visual Observation</i> | <i>Orange</i> |
| <i>Odor</i> | <i>Subjective</i> | <i>Mild (Use w/ adequate vent.) – Odorless when cured</i> |
| <i>Tack-free time (TT-S-1543A)</i> | <i>Test Lab</i> | <i>10 minutes</i> |
| <i>Fully Cured 1”</i> | <i>Test Lab</i> | <i>≤ 60 minutes</i> |
| <i>Expansion:</i> | <i>Test Lab</i> | <i>12 oz. can: Approx. 0.6 cu. Ft.</i> |
| <i>Application Temperature</i> | <i>Test Lab</i> | <i>41F to 86F (5C to 30C)</i> |
| <i>Linear Footage (1/2” Foam Bead)</i> | <i>Test Lab</i> | <i>12 oz. can: Approx. 465 linear feet</i> |
| <i>Cutting Time</i> | <i>Test Lab</i> | <i>60 minutes</i> |
| <i>Fully cured</i> | <i>Test Lab</i> | <i>24 Hours (initial cure ~ 6 hrs)</i> |
| <i>Paint Over Time (Latex & Oil Based)</i> | <i>Test Lab</i> | <i>When Fully Cured</i> |
| <i>Weathering</i> | <i>Test Lab</i> | <i>Must be protected w/ premium paint when used in sunlight or UV light</i> |
| <i>R-Value</i> | <i>Test Lab</i> | <i>4-5 per inch</i> |
| <i>Service Temperature</i> | <i>Test Lab</i> | <i>-76°F to 212°F (-60°C to 100°C)</i> |
| <i>Shrinkage</i> | <i>Test Lab</i> | <i>< 5% after first 24 hrs</i> |
| <i>Water Absorption</i> | <i>Test Lab</i> | <i>1.5% after first 24 hrs, then waterproof</i> |
| <i>Clean-up Solvent (Before cure)</i> | <i>Test Lab</i> | <i>Paint thinner or Acetone (if done immediately) Cured foam can not be removed w/ solvents. If foam hardens on skin, use industrial hand cleaner with pumice, leaving on for 1 hr. Foam can eventually be removed from skin w/ repeated effort & is not harmful to health.</i> |
| <i>Shelf Life</i> | <i>Test Lab</i> | <i>12 months (unopened @ 77°F - 25°C)</i> |
| <i>Water Resistance</i> | <i>Test Lab</i> | <i>Excellent (when cured)</i> |
| <i>Storage</i> | <i>Test Lab</i> | <i>Store in a cool, dry area. Store in upright position @ temps above freezing. Avoid temps above 100°F.</i> |
| <i>Standard Container</i> | <i>Known</i> | <i>Aerosol can supplied w/ nozzle</i> |

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Clean Up

Uncured Foam – Clean immediately with acetone.
Cured Foam – cannot be removed with solvents. If foam hardens on skin, use an industrial hand cleaner with pumice. Repeat if necessary. Foam that cannot be removed will wear off in time.

For Best Results

- Always wear protective gloves & eyewear when using.
- Shake can vigorously for at least 1 minute before using.
- Applied foam subject to UV/sunlight must be painted with premium paint or elastomeric coating.
- Apply when temperature is above 41F & below 86F. (Extrusion in lower temperatures will be slow & product curing may be effected).

Environmental, Safety & Transportation Information

May irritate eyes, skin & respiratory tract. Wear gloves, protective clothing & goggles if contact likely. SEE MSDS FOR ADDITIONAL INFORMATION. CAUTION: Contains MDI Monomer Polyurethane Resin and Propane/Isobutane. If burned, dried foam may release hazardous decomposition products. IMDG (maritime transport) Class 2.1, EMS = F – D, S – U. ADR (transport by road), RID (transport by rail), ADIR (transport by inland waterways) = Class 2, Code 5F, Danger Label Packages 2.1. ICAO (air transport) Class 2.1 (Flammable Gas). FOAM CURRENTLY EXEMPT & SUITABLE FOR SALE IN CALIFORNIA, OTC & LADCO STATES, AS OF THIS DATE. ECCN Number: EAR99. Flame Spread: 15. Smoke Developed: 20.

Color

Orange

Packaging

Can supplied w/ nozzle

Limitations

- Can be used on virtually all, clean surfaces EXCEPT Teflon, Silicone & Polyethylene.
- Not recommended for filling enclosed cavities. Do not use between walls or under tub surrounds as expansion may alter dimensions.
- Do not expose to rain or excessive moisture for 6 hours.
- Do not apply to surfaces with excessive moisture content.
- Flammable during dispensing.

| <u>Criteria</u> | <u>Evaluation Method</u> | <u>Status</u> |
|--------------------------|--------------------------|------------------------------|
| CARB Compliance | Documents Review | Yes (Currently Exempt) |
| Prop 65 Ingredients | Documents Review | None |
| DOT Proper Shipping Name | Documents Review | Consumer Commodity |
| AIR OR OCEAN EXPORT: | Documents Review | AEROSOLS, CLASS 2.1, UN 1950 |
| DOT UN/NA Number | Review of Regs | N/A |
| ORM-D | Documents Review | Yes |
| Packing Group | Review of Regs | N/A |
| VOC Content | Documents Review | 170 g/L (currently exempt) |

CAUTION: NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN & PETS. Contents under pressure. Do not puncture or incinerate. If burned, dried foam may release hazardous decomposition products. Keep from freezing. Cans may burst if left in closed area, such as a motor vehicle. Ventilate work area with moving fresh air. Vapors heavier than air may cause flash fire or ignite explosively. Overexposure to vapors will cause dizziness or headache. Dried foam may be combustible if exposed to flame or temperatures above 240°F. (See MSDS for additional information) Do not store in direct sunlight or at temperatures exceeding 120F.

LIMITED WARRANTY

Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. If not satisfied when used as directed, product will be replaced without charge upon presentation of proof of purchase and used container. This limited warranty only applies to residential use and damages including consequential damage and other remedies are excluded. No other warranties apply, including fitness for a particular purpose.

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SEE MSDS FOR ADDITIONAL DATA/INFORMATION